Ontario

Ministry of
Northern Development
and Mines

Mines and
Minerals
Division

GEOLOGICAL DATA INVENTORY FOLIO

GDIF 597

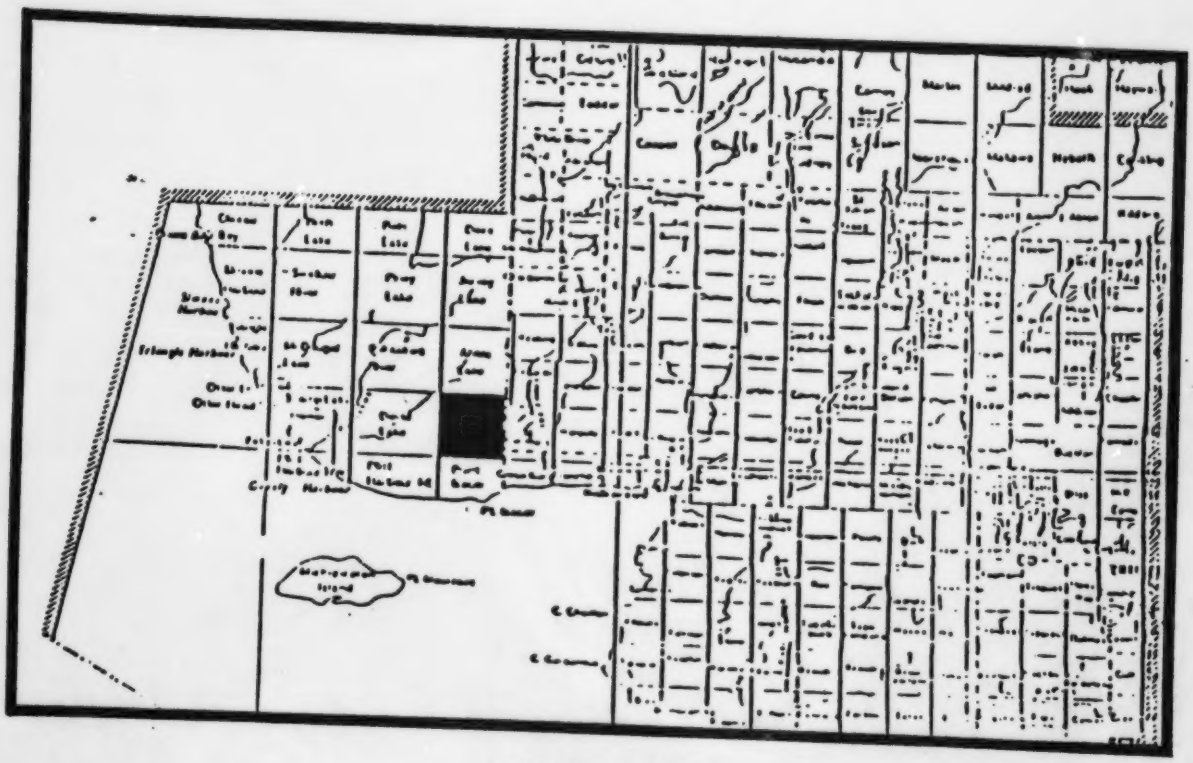
MISHIBISHU LAKE AREA

Sault Ste. Marie Mining Division

N.T.S. No. 42C/03SW

Compiled by the staff of
the Resident Geologist's Office

WAWA



LOCATION MAP

Mining Claim Map Number G-3772 (formerely M-7)

This project was funded by the Northern Development Fund, Wawa Economic Development Initiatives.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Ministry of Northern Development and Mines does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Wawa Resident Geologist's Office, 1991. Mishibishu Lake Area, Geological Data Inventory Folio 597; compiled by the staff of the Resident Geologist's Office, Wawa.

Original Compilation by: Howson, Tim, 1986.

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11/89	5-1 to 5-52 12-1 to 12-6	W.W.

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ACCOMPANYING MAPS (see map legends on outside back cover).

A. Files Index Map (s) ..... Map A-1, A2, A3

B. Exploration Data Map (s) ..... Map B-1, B2

ABBREVIATIONS LIST

A.F.R.O.	Assessment Files Research Office (Toronto)
Ann. Rept. (A.R.)	Annual Report
A.R.I.P	Aggregate Resources Inventory Paper
Bull	Bulletin
C.I.M.M.	Canadian Institute of Mining and Metallurgy
C.J.E.S.	Canadian Journal of Earth Sciences
C.M.J.	Canadian Mining Journal
Econ. Geol.	Economic Geology
E.M.R.	Department of Energy, Mines and Resources
E.P.B.	Earth Physics Branch
G.A.C.	Geological Association of Canada
GC	Geological Circular
GDIF	Geological Data Inventory Folio
Geol.	Geology
Geol. Soc. Amer. Bull.	Geological Society of American Bulletin
GR	Geoscience (Geological) Report
GSC	Geological Survey of Canada
I.L.S.G.	Institute on Lake Superior Geology
IMR	Industrial Mineral Report
I.O.C.	Report of the Iron Ore Committee (1923)
Jour. (or J)	Journal
MDC	Mineral Deposit Circular
M.D.I. (R)	Mineral Deposit Inventory (Record)
Mem	Memoir
MNDM	Ministry of Northern Development and Mines
MNR	Ministry of Natural Resources
MP	Miscellaneous Paper
MRC	Mineral Resources Circular
N.M.I.	National Mineral Inventory
NOEGTS	Northern Ontario Engineering Geology Terrain Study
NTS	National Topographic System
O.B.M.	Ontario Bureau of Mines
O.D.L.F.	Ontario Department of Lands and Forests
ODM	Ontario Department of Mines/Ontario Division of Mines
ODMNA	Ontario Department of Mines and Northern Affairs
OFR	Open File Report
OGS	Ontario Geological Survey
P.R.	Preliminary Report
Prelim. (or P)	Preliminary
R.C.	Royal Commission on Mineral Resources of Ontario (1890)
S.M.D.R.	Source Mineral Deposit Record
SOEGTS	Southern Ontario Engineering Geology Terrain Study
Sum. Rept.	Summary Report
OFM	Open File Map
OCRS	Ontario Centre for Remote Sensing
CCRS	Canada Centre for Remote Sensing
WRGO	Wawa Resident Geologist's Office

*

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no': if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	T.H.
2	Assessment Files Research Office, Toronto	Yes	T.H.
3	OGS/ODM General Index	Yes	T.H.
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	T.H.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	T.H.
6	ODM Industrial Mineral Reports	No	T.H.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	T.H.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	T.H.
9	Newspaper Clippings File	Yes	T.H.
10	GSC Index to Publications	Yes	T.H.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	T.H.
12	OGS Index Maps	Yes	T.H.
13	Source Mineral Deposit Records (OGS)	Yes	T.H.
14	Author - Subject Articles File	Yes	T.H.
15	ODM/OGS Miscellaneous Papers	Yes	T.H.
16	ODM Geological Circulars	No	T.H.
17	OGS Study Series	No	T.H.
18	ODM Preliminary Reports	No	T.H.
19	ODM Bulletins	No	T.H.
20	ODM/OGS Open File Reports	Yes	T.H.
21	OGS Northern/Southern Ontario Engineering Geology Terrain Studies	Yes	T.H.
22	OGS Aggregate Resources Inventory Papers	No	T.H.
23	OGS Mineral Potential Maps	Yes	T.H.
24	Drill Core Library Catalogue	Yes	T.H.
25	Algoma Central Railway Maps	Yes	T.H.
*			

MISHIBISHU LAKE

MINERAL COMMODITIES REFERENCE LIST

anh ..... Anhydrite
ank ..... Ankerite
ap ..... Apatite
arg ..... Argentite
As ..... Arsenic
▲asp ..... Arsenopyrite
asb ..... Asbestos
ba ..... Barite
be ..... Beryl
Bi ..... Bismuth
bn ..... Bornite
Cd ..... Cadmium
calc ..... Calcite
carb ..... Carbonate
cc ..... Chalcocite
▲cp ..... Chalcopyrite
ch ..... Chert
clay ..... Clay
Co ..... Cobalt
cob ..... Cobaltite
Cu ..... Copper
cor ..... Corundum
dol ..... Dolomite
ep ..... Epidote
fel ..... Feldspar
fl ..... Fluorite (flurospar)
fu. ..... Fuchsite
gn. ..... Galena
gt. ..... Garnet
goe ..... Goethite
▲Au ..... Gold
▲gf ..... Graphite

gl ..... Gravel
gyp ..... Gypsum
hem ..... Hematite
▲Fe ..... Iron
▲IF ..... Iron Formation
jas ..... Jasper
ky ..... Kyanite
Pb ..... Lead
lim ..... Limonite
Li ..... Lithium
mgst ..... Magnesite
mag ..... Magnetite
mc ..... Malachite
Mn ..... Manganese
mb ..... Marble
mar ..... Marcasite
ma ..... Marl
mi ..... Mica
mo ..... Molybdenite
▲Mo ..... Molybdenum
mon ..... Monazite
ne .... Nephelite (nepheline)
Ni ..... Nickel
Nb ..... Niobium
Pd ..... Palladium
pent ..... Pentlandite
Pt ..... Platinum
▲py ..... Pyrite
pyl ..... Pyrochlore
po ..... Pyrrhotite
q ..... Quartz
qcv .. Quartz carbonate vein

ra ..... Radioactive minerals
RE ..... Rare Earths
sd ..... Sand
sgl ..... Sand and gravel
ss ..... Sandstone
scap ..... Scapolite
shee ..... Scheelite
serp ..... Serpentine
sh ..... Shale
sid ..... Siderite
si ..... Silica
Ag ..... Silver
sl ..... Slate
sm ..... Smaltite
sod ..... Sodalite
spec ..... Specularite
▲sp ..... Sphalerite
spd ..... Spodumene
s ..... Sulphides
talc ..... Talc
Te ..... Tellurium
th ..... Thorite
Th ..... Thorium
ti ..... Titanite
Ti ..... Titanium
tour ..... Tourmaline
W ..... Tungsten
uran ..... Uraninite
U ..... Uranium
verm ..... Vermiculite
Zn ..... Zinc
zr ..... Zircon

ADDITIONS

▲ rho - rhodochrosite
▲ wol - wolframite

*

▲ Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MISHIBISHU LAKE

MINERAL OCCURRENCES			Source Min. Dep. Record	References in OGS Min. Dep. Cir. and Indus. Mineral Rpts.	Additional References and/or Remarks
Map Ref. Letter	(see Data Map) Name(s)	Mineralization			
A	Sand River Gold Mining Co.	Fe			-see ODM Maps P. 508-513 -showing No. 14 on ODM Map P. 507
B	Maple-Cameron Lake Occurrence	IF		MDC 011 p. 414	-see ODM Map P. 507 -see ACR Map 42C 3&6
C	Hollinger Consolidated Gold Mines Ltd. Mishibishu Lake	Au	02317		-showing No. 11 on ODM Map P. 507 -showing No. 25 on ACR Map 42C 3&6 -MDIR TB0641
D	Amichi Prospect	Au	01771	MDC 013 p. 288-289	-showing No. 6 on ODM Map P. 507 -MDIR TB0523
E	Erie Canadian	Au	02316		-showing No. 9 on ODM Map P. 507 -MDIR TB0640
F	Bishu Mines Magnacon Mines and Oil Ltd. Macassa-Bishu	Au, py	01772		-showing No. 19 on ODM Map 2333 -MDIR TB0522 -see N-20, p. 14-3
G	Aylen Mines Occurrence	gn, sp			-showing No. 7 on ODM Map P. 507 -showing No. 10 on ODM Map 2333 -see N-15, p. 14-3

MINERAL OCCURRENCES			Source Min. Dep. Record	References in OGS Min. Dep. Cir. and Indus. Mineral Rpts.	Additional References and/or Remarks
Map Ref. Letter	(see Data Map) Name(s)	Mineralization			
H	Northwest Showing	Au			-see OGS MP 126 p. 87
I	Unnamed Occurrence with the Westfield Magnacon Zone	Au, qv			-see file WP-Mishibishu-8 -2 grab samples assayed 0.404 oz/t & 0.321 oz/t
J	Unnamed Occurrence within the Westfield Magnacon Zone	Au, qv			-see file WP-Mishibishu-8 -grab sample assayed 0.326 oz/t
K	Discovery Showing	Au, qv			-see file WP-Mishibishu-8 -qv assayed up to 0.425 oz/t
L	Michaud Showing	Au, qcv			-see file WP-Mishibishu-14 p. 24, 26-27, map No. 1 -grab sample assayed 0.029 oz/t
M	Augusta Lake Fault Showing	qv, py, Au			-see file WP-Mishibishu-14 p. 24, 26, map No. 1 -grab sample assay 1400 ppb
N	Old Shaft	?			-see file WP-Mishibishu-18 p. 25-26, map No. 3

MINERAL OCCURRENCES			Source Min. Dep. Record	References in OGS Min. Dep. Cir. and Indus. Mineral Rpts.	Additional References and/or Remarks
Map Ref. Letter	(see Data Map) Name(s)	Mineralization			
O	Unnamed Occurrence	Au, Mo, gn, cp			-see file WP-Mishibishu-18 p. 26-28, map No. 3 -grab samples assayed up to 0.286 oz/t
P	East Creek Showing	Au, asp, py, gf			-see file WP-Mishibishu-18 p. 29-30, map No. 4 -grab samples assayed up to 0.146 oz/t
Q	Rook Lake Shear Anomaly	gf, py, cp, qv			-see file WP-Mishibishu-18 p. 24-25, map No. 1 -grab samples assayed up to 750 ppb

TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																	
										Airborne			Ground						
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp	Other Data or footnotes	Mag	EM	Rad	Mag	EM	Rad	IP	Self Potential	Resistivity	
1	Amichi Gold Mines Ltd. (42C/03SW 0010-A1)				51				N-18										
2	Amichi Gold Mines Ltd. (42C/03SW 0010-B1)				51				N-18										
3	Aylen Mines Ltd. (42C/03SW 0010-C1)				54														
4	Asarco Exploration Ltd. (42C/03SW 0010-D1)				72	72													
5	Bishu Mines Ltd. (42C/03SW 0011)				47 51				N-16										
6	Sand River Gold Mining Co. Ltd. (42C/03SW 0012-A1)				57				N-1										

SEE PAGE 13-1,...NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																					
										Airborne			Ground									
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp		Mag	EM	Rad	Mag	EM	Rad	IP	Self Potential	Resistivity	Other Data	or footnotes			
7	Amoco Canada Petroleum Co. Ltd. (42C/03SW 0012-B1)				80	80																	
8	Amoco Canada Petroleum Co. Ltd. (42C/03SW 0013-A1)	80																					
9	Hollinger Consolidated Gold Mines Ltd. Bishu Mines Ltd. (42C/03SW 0014)	50		37 38	37 38 47 50	38 50 59		37 38 46 49 50 51 55 59 61											N-19				
10	Noranda Exploration Co. Ltd. (42C/03SW 0015-A1)												78	78									
11	Aylen Mines Ltd. (42C/03SW 0015-B1)							54															

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TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																			
										Airborne			Ground							
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus	Notes Corresp	Mag	EM	Rad	Mag	EM	Rad	IP	Self potential	Resistivity	Other Data	or footnotes
12	Amichi Gold Ms. Ltd. (42C/03SW 0016-A1)					50		50												
13	Westfield Minerals Ltd. St. Fabien Exploration Inc. (42C/03SW 0017)	81	81			81		81 83					81	81						
13	Westfield Minerals Ltd. (42C/03SW 0024-A1)					82														N-13
14	Sanderson, C.D. (42C/03SW 0018-A1)			83																
14	Sanderson, C.D. (42C/03SW 0026-A1)			82	82	82														N-17
15	Wasabi Resources Ltd. Harbinson Mining and Oil Group (42C/03SW 0019)									83	83									

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TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																				
											Airborne			Ground							
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp	Mag	EM	Rad	Mag	EM	Rad	IP	Self Potential	Resistivity	Other Data	or footnotes
16	Fabien Exploration Inc. Westfield Minerals Ltd. (42C/03SW 0020)				83	83													
17	Westfield Minerals Ltd. (42C/03SW 0021-A1)		83			83													
18	Westfield Minerals Ltd. (42C/03SW 0021-B1)		83			83													
19	Westfield Minerals Ltd. (42C/03SW 0022)				84	84													
20	Westfield Minerals Ltd. (42C/03SW 0023)	82	82	82?		82													
21	Westfield Minerals Ltd. (42C/03SW 0025)	83	83	83	83	83						83			83			N-2	

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TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																				
										Airborne			Ground								
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus	Notes Corresp	Mag	EM	Rad	Mag	EM	Rad	IP	Self Potential	Resistivity	Other Data	or footnotes
22	Sanderson, C.D. (42C/03SW 0026-B1)			83		83														
23	MacMillan Energy Corp. Ltd. (42C/03SW 0027)		83			83		83 84 85						83						
24	MacMillan Energy Corp. Ltd. (Groseilliers 0015)									83	83									
24	MacMillan Energy Corp. Ltd. (42C/03SW 0028)	83	83			83		83		?										N-3
25	Wasabi Resources Ltd. (42C/03SW 0029)	84	84			83 84							84	84						N-4
26	Westfield Minerals Ltd. (42C/03SW 0030)		83	83		83							83	83		83				

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TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																		
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp	Airborne			Ground						Other Data	or footnotes
									Mag	EM	Rad	Mag	EM	Rad	IP	Self potential	Resistivity		
27	Wasabi Resources Ltd. Chavin of Canada Ltd. (42C/03SW 0031)	84	84			84							84						N-5
28	Asarco Exploration of Canada Ltd. (St. Germain 0010)	72		72	?	72							72						N-6
29	Brass Ring Resources Ltd. (41N/13NE 0012)								83	83									
30	Central Crude Ltd. (41N/14NW 0012)								83	83									
31	Falconbridge Nickel Mines Ltd. (Groseilliers 0011)								70	70									
32	Erie Canadian Mines Ltd. (St. Germain 0012)	34 37 38		25 26 38		38		36 37 38 46											N-7

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TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																	
									Airborne			Ground							
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Stripping Trenching or	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp	Mag	EM	Rad	Mag	EM	Rad	IP	Self Potential	Resistivity	Other Data	or footnotes
33	Central Crude Ltd. (41N/14NW 0014)	83				83							83						N-8
34	Company Name Unknown (42C/03SW 0032-A1)			84 87															N-9
35	MacMillan Energy Corp. Ltd. (42C/03SW 0032-B1)												86						N-10
36	Muscocho Explorations Ltd (42C/03SW 0033-A1)	86				86													
37	Dominion Explorers Inc. (42C/03SW 0033-C1)				86	86													
38	MacMillan Energy Corp. Ltd. (42C/03NW 0017)		85																

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TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																			
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Work Underground	Prospectus Notes Corresp	Airborne Mag	Airborne EM	Airborne Rad	Ground Mag	Ground EM	Ground Rad	Ground IP	Ground Self potential	Ground Resistivity	Other Data or footnotes
39	Muscocho Explorations Ltd. (WP-Mishibishu-2)		86										86					N-11
40	MacMillan Energy Corp. Ltd. Granges Exploration Ltd (WP-Mishibishu-3)				86													N-11
41	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)				86													N-11
42	Wasabi Resources Ltd. (WP-Mishibishu-5)				86													N-11
43	Granges Exploration Ltd. (WP-Mishibishu-7)				86													N-11
44	Westfield Minerals Ltd. (WP-Mishibishu-8)				84													N-11

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TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																		
										Airborne			Ground							
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp	Other Data	Mag	EM	Rad	Mag	EM	Rad	IP	Self potential	Resistivity	or footnotes	
45	Wasabi Resources Ltd. (WP-Mishibishu-9)	87																	N-11	
46	San Paulo Explorations Inc. (WP-Mishibishu-10)									87	87								N-11	
47	Muscocho Explorations Ltd. (WP-Mishibishu-11)									87	87								N-11 N-12	
48	Dominion Explorers Inc. Wasabi Resources Ltd. (WP-Mishibishu-12)		87			87													N-11	
49	Dominion Explorers Inc. Wasabi Resources Ltd. (WP-Mishibishu-13)		87																N-11	
50	Flanagan McAdam & Co. (WP-Mishibishu-14)	88																	N-11	

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TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																			
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp	Airborne			Ground						Other Data or footnotes
									Mag	EM	Rad	Mag	EM	Rad	IP	Self Potential	Resistivity	
51	Dominion Explorers Inc. (WP-Mishibishu-15)								88	88								N-11
52	Muscocho Explorations Ltd. Flanagan McAdam Resources Inc. Windara Minerals Ltd. (WP-Mishibishu-16)				86	86	86											N-11 N-21
53	Muscocho Explorations Ltd. Windara Minerals Ltd. (WP-Mishibishu-17				85	85												N-11
54	Flanagan McAdam & Company Muscocho Explorations Ltd. Windara Minerals Ltd. (WP-Mishibishu-18)	87				87		87	87	87		87	87				87	N-11 N-14
55	Noranda Exploration Co. Ltd. (WP-Mishibishu-19)		88			88												N-11

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TYPE OF WORK (see Files Index Map) Exploration Files		Numbers below represent the year of the work ; e.g. 68 for 1968																			
Map Ref. No.	Company/ Author (file number)	Geological	Geochemical	Trenching or Stripping	Drilling	Assay Data	Underground Work	Prospectus Notes Corresp	Airborne Mag	Airborne EM	Airborne Rad	Ground Mag	Ground EM	Ground Rad	Ground IP	Ground Self potential	Ground Resistivity	Other Data	or footnotes
56	Lahla Administrative Services Ltd. (WP-Mishibishu-20)								88	88									N-11
57	Daiwan Engineering Ltd. (WP-Mishibishu-22)								89	89									N-11
58	Noranda Exploration Co. Ltd. (WP-Point Isacor-2)	87	87																N-11
59	Dominion Explorers Inc. (WP-Pilot Harbour NE-5)								88	88									N-11

SEE PAGE 13-1,... NOTES, FOR ITEMS LISTED BY NUMBER IN THIS COLUMN

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
1	Amichi Gold Mines Ltd. (42C/03SW 0010-A1)	1	1951	S38 W	-45	14.0′	465.9′	py, qv	
1	Amichi Gold Mines Ltd. (42C/03SW 0010-A1)	2	1951	S38 W	-65	11.0′	130.0′	py, Fe, qv	
1	Amichi Gold Mines Ltd. (42C/03SW 0010-A1)	3	1951	S38 W	-65	6.0′	138.2′	py, qv	
1	Amichi Gold Mines Ltd. (42C/03SW 0010-A1)	4	1951	S38 W	-65	5.5′	258.7′	py, Fe, qv	
1	Amichi Gold Mines Ltd. (42C/03SW 0010-A1)	5	1951	S38 W	-65	8.3′	158.3′	py, gn, sp, qv	
2	Amichi Gold Mines Ltd. (42C/03SW 0010-A1)	6	1951	S38 W	-45	5.0′	133.7′	py, qv	
3	Amichi Gold Mines Ltd. (42C/03SW 0010-A1)	7	1951	S27 W	-45	5.0′	249.5′	qv	
4	Amichi Gold Mines Ltd. (42C/03SW 0010-A1)	8	1951	S20 W	-45	7.5′	219.0′		

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
4	Amichi Gold Mines Ltd. (42C/03SW 0010-A1)	9	1951	S20 W	-45	5.5′	168.0′		
4	Amichi Gold Mines Ltd. (42C/03SW 0010-A1)	10	1951	S20 W	-75	4.0′	225.0′	py, qcv	
4	Amichi Gold Mines Ltd. (42C/03SW 0010-A1)	11	1951	S20 W	-45	6.0′	160.0′	qcv	
5	Amichi Gold Mines Ltd. (42C/03SW 0010-B1)	12	1951	S02 E	-45	7.5′	327.0′	py, qv	
5	Amichi Gold Mines Ltd. (42C/03SW 0010-B1)	13	1951	S02 E	-75	6.5′	278.0′	py, qv	
5	Amichi Gold Mines Ltd. (42C/03SW 0010-B1)	14	1951	S08 E	-60	8.0′	355.0′	py, gn	
5	Amichi Gold Mines Ltd. (42C/03SW 0010-B1)	15	1951	S02 E	-60	8.0′	467.0′	py, gn, qv	
6	Aylen Mines Ltd. (42C/03SW 0010-C1)	1	1954	?	?	?	30.0′	gn, sp, q	

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
6	Aylen Mines Ltd. (42C/03SW 0010-C1)	2	1954	?	?	?	50.0′	gn, sp, hem, q	
6	Aylen Mines Ltd. (42C/03SW 0010-C1)	3	1954	?	?	?	100.0′	sp, q, hem	
6	Aylen Mines Ltd. (42C/03SW 0010-C1)	4	1954	?	?	?	50.0′	sp, q	
6	Aylen Mines Ltd. (42C/03SW 0010-C1)	5	1954	?	?	?	25.0′	sp	
6	Aylen Mines Ltd. (42C/03SW 0010-C1)	3	1954	?	?	?	47.0′	cp, gn, po, q	
6	Aylen Mines Ltd. (42C/03SW 0010-C1)	4	1954	?	?	?	60.0′	gn, cp	
7	Asarco Exploration Co. of Canada Ltd. (42C/03SW 0010-D1)	G-9-1	1972	169	-45	6.0′	228.2′	po, py	Au, Ag, Cu, Zn
8	Asarco Exploration Co. of Canada Ltd. (42C/03SW 0010-D1)	G-10-1	1972	185	-45	2.0′	208.0′	py	Au, Ag, Cu, Zn

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
9	Asarco Exploration Co. of Canada Ltd. (42C/03SW 0010-D1)	G-14-1	1972	S	-45	10.0'	269.0'	qv, po, cp, py	Au, Ag, Cu, Zn
10	Asarco Exploration Co. of Canada Ltd. (42C/03SW 0010-D1)	G-15-1	1972	S	-45	3.8'	278.1'	IF, py, po, cp	Au, Ag, Cu, Zn
11	Bishu Mines Ltd. (42C/03SW 0011)	1	1947	182	-35	?	120.0	py, qv	
11	Bishu Mines Ltd. (42C/03SW 0011)	2	1947	182	-60	?	103.0'	py, qv	
11	Bishu Mines Ltd. (42C/03SW 0011)	3	1947	182	-45	?	103.0'	qv	
11	Bishu Mines Ltd. (42C/03SW 0011)	4	1947	182	-45	?	503.0'	py, qv, carb, gn	
12	Bishu Mines Ltd. (42C/03SW 0011)	5	1947	182	-45	?	300.0'	gn, Fe, carb, qv	
12	Bishu Mines Ltd. (42C/03SW 0011)	6	1947	182	-45	?	412.0'	Fe, Au, cp, carb	

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
13	Bishu Mines Ltd. (42C/03SW 0011)	7	1947	182	-45	?	310.0′	qv, carb, gn, Au	
14	Bishu Mines Ltd. (42C/03SW 0011)	8	1947	182	-45	?	318.0′	carb, q	
15	Bishu Mines Ltd. (42C/03SW 0011)	9	1947	182	-45	?	493.0′	py, qv, carb	
15	Bishu Mines Ltd. (42C/03SW 0011)	10	1947	182	-70	?	517.0′	Fe, qv, carb	
16	Bishu Mines Ltd. (42C/03SW 0011)	11	1947	182	-45	?	700.0′	qv	
17	Bishu Mines Ltd. (42C/03SW 0011)	12	1947	182	-45	?	482.0′	Fe, py, cp, gn qv	
18	Bishu Mines Ltd. (42C/03SW 0011)	151	1951	S26 E	-45	6.0′	110.0′	Fe-carb, cp, py	
18	Bishu Mines Ltd. (42C/03SW 0011)	251	1951	S26 E	-70	5.0′	140.0′	Fe-carb, py, qv	

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
19	Bishu Mines Ltd. (42C/03SW 0011)	351	1951	S26 E	-80	5.0′	266.0′	qv, carb, py	
20	Bishu Mines Ltd. (42C/03SW 0011)	451	1951	S26 E	-65	5.0′	400.0′	qcv, py, cp	
21	Bishu Mines Ltd. (42C/03SW 0011)	551	1951	S26 E	-55	6.0′	496.0′	Fe-carb, qv, qcv	
12	Bishu Mines Ltd. (42C/03SW 0011)	651	1951	S22 E	-60	6.0′	390.0′	qv	
12	Bishu Mines Ltd. (42C/03SW 0011)	751	1951	S22 E	-65	6.0′	390.0′	Fe-carb, py, carb	
22	Bishu Mines Ltd. (42C/03SW 0011)	851	1951	S10 E	-45	6.0′	160.0′		
23	Bishu Mines Ltd. (42C/03SW 0011)	951	1951	S10 E	-72	5.0′	280.0′	Fe-carb, q	
23	Bishu Mines Ltd. (42C/03SW 0011)	1051	1951	S05 E	-59	5.0′	393.5′	Fe-carb, py	

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
24	Bishu Mines Ltd. (42C/03SW 0011)	1151	1951	S05 E	-68	5.0′	503.0′	qcv, carb, py	
25	Bishu Mines Ltd. (42C/03SW 0011)	1251	1951	S16 W	-70	7.0′	503.0′	Fe-carb, py, qcv	
26	Bishu Mines Ltd. (42C/03SW 0011)	13-51	1951	201	-68	6.0′	396.0′		
17	Bishu Mines Ltd. (42C/03SW 0011)	14-51	1951	180	-58	6.0′	356.0′	S, carb, py	
17	Bishu Mines Ltd. (42C/03SW 0011)	15-51	1951	179	-60	5.0′	344.0′	qv, py	
27	Sand River Gold Mining Co. (42C/03SW 0012-A1)	1	1957	N23 W	-45	8.0′	401.0′	mag, py, qv, jas, si	
28	Sand River Gold Mining Co. (42C/03SW 0012-A1)	2	1957	S23 E	-45	12.0′	414.0′	mag, py, qv, jas, si, po	
29	Amoco Canada Petroleum Co. Ltd. (42C/03SW 0012-B1)	PO-80-4A-N-1	1980	180	-45	13.7m	96.6m	py, qv, gf, po gt, si	Au, Ag, Cu, Zn

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
30	Amoco Canada Petroleum Co. Ltd. (42C/03SW 0012-B1)	PO-80-4A-N-2	1980	180	-45	3.0m.	102.7m.	po, py, cp, fl qv, gf	Au, Ag, Cu, Zn
31	Amoco Canada Petroleum Co. Ltd. (42C/03SW 0012-B1)	PO-80-4E-1	1980	180	-45	1.5m.	78.3m.	qv, po, py, gf	Au, Ag, Cu, Zn
32	Amoco Canada Petroleum Co. Ltd. (42C/03SW 0012-B1)	PO-80-4D-1	1980	020	-45	1.2m.	105.8m.	po, py, cp, qv gf, si, gt	Au, Ag, Cu, Zn
33	Westfield Minerals Ltd. (42C/03SW 0020) (42C/03SW 0025)	83-1	1983	225	-65	4.0′	282.0′	py, fu, qcv, cp, po, ank, calc, gf	Au
33	Westfield Minerals Ltd. (42C/03SW 0020) (42C/03SW 0025)	83-2	1983	225	-43	10.0′	101.0′	py, qcv, fu, ank, calc, po spec	Au
34	Westfield Minerals Ltd. (42C/03SW 0020) (42C/03SW 0025)	83-3	1983	180	-45	12.0′	300.0′	py, qcv, po, carb, si, cp, sp, gn, calc	Au, Cu, Pb, Zn, As
35	Westfield Minerals Ltd. (42C/03SW 0020) (42C/03SW 0025)	83-4	1983	180	-45	14.0′	322.0′	qcv, py, po, fu, calc, cp, si, ep, gn	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
36	Westfield Minerals Ltd. (42C/03SW 0020) (42C/03SW 0025)	83-5	1983	180	-45	12.0′	417.0′	qcv, py, fu, carb	Au
37	Westfield Minerals Ltd. (42C/03SW 0020) (42C/03SW 0025)	83-6	1983	175	-40	12.0′	473.0′	py, fu, po, gn qcv, ank, cp, ep	Au
38	Westfield Minerals Ltd. (42C/03SW 0022)	84-1	1984	205	-45	10.0′	250.0′	q, qcv, py, fuhem, ank, si, cp, gn, ch, calc	Au
39	Westfield Minerals Ltd. (42C/03SW 0022)	84-2	1984	205	-45	10.0′	350.0′	IF, py, qcv, fu, ank, mag, hem, ch, qv	Au
39	Westfield Minerals Ltd. (42C/03SW 0022)	84-3	1984	205	-45	10.0′	460.0′	mag, py, qcv, IF, fu, hem, ank, Au, qv	Au
38	Westfield Minerals Ltd. (42C/03SW 0022)	84-4	1984	205	-45	10.0′	200.0′	q, py, qcv, ch, si	Au
38	Westfield Minerals Ltd. (42C/03SW 0022)	84-5	1984	205	-45	10.0′	200.0′	lim, hem, py, ch, qcv	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
40	Westfield Minerals Ltd. (42C/03SW 0022)	84-6	1984	205	-45	10.0′	400.0′	fu, qcv, IF, py, ch, hem	Au
41	Westfield Minerals Ltd. (42C/03SW 0022)	84-7	1984	215	-45	10.0′	250.0′	py, q, carb, cp, ch, si, calc	Au
42	Westfield Minerals Ltd. (42C/03SW 0022)	84-8	1984	215	-45	10.0′	336.0′	fu, hem, q, py carb, cp, lim si, spec, ank asp	Au
43	Westfield Minerals Ltd. (42C/03SW 0022)	84-9	1984	195	-45	10.0′	200.0′	carb, cp, qv, lim, py, fu, ch, si, qcv	Au
44	Sanderson, C.D. (42C/03SW 0026-A1)	4-holes	1982	?	?	?	60.0′		
47	Bishu Mines Ltd. (42C/03SW 0014)		1950?	?	?	?	?		
48	Hollinger Consolidated Gold Mines Ltd. (42C/03SW 0014)	1	1950?	?	-20>	?	208.0′		

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
48	Hollinger Consolidated Gold Mines Ltd. (42C/03SW 0014)	2	1950?	?	-20>	?	208.0′		
48	Hollinger Consolidated Gold Mines Ltd. (42C/03SW 0014)	3	1950?	?	-20>	?	?		
48	Hollinger Consolidated Gold Mines Ltd. (42C/03SW 0014)	4	1950?	S03 E	-20	?	300.0′		
48	Hollinger Consolidated Gold Mines Ltd. (42C/03SW 0014)	6	1950?	S03 E	-20	?	292.0′		Au
48	Hollinger Consolidated Gold Mines Ltd. (42C/03SW 0014)	7	1950?	S03 E	-20	?	293.0′		Au
48	Hollinger Consolidated Gold Mines Ltd. (42C/03SW 0014)	8	1950?	S03 E	-20	?	292.0′		Au
48	Hollinger Consolidated Gold Mines Ltd. (42C/03SW 0014)	9	1950?	S05 W	0.0	?	292.5′		Au
48	Hollinger Consolidated Gold Mines Ltd. (42C/03SW 0014)	10	1950?	S05 W	-20	?	288.8′		Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
48	Hollinger Consolidated Gold Mines Ltd. (42C/03SW 0014)	11	1950?	S05 W	-20	?	290.0′		Au
48	Hollinger Consolidated Gold Mines Ltd. (42C/03SW 0014)	12	1950?	S14 W	-44	?	373.0′		
45	Asarco (St. Germain 0010)	?	?	?	?	?	?	?	?
46	Asarco (St. Germain 0010)	?	?	?	?	?	?	?	?
49	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-1	1986	180	-45	10.0′	500.0′	py, Au?, qcv, calc, si, Fe	Au
50	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-2	1986	180	-45	10.0′	497.0′	py, qcv, si, calc, qv	Au
51	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-3	1986	180	-45	10.0′	307.0′	py, qcv, qv, calc	Au
52	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-4	1986	180	-45	10.0′	488.0′	qcv, Au?, py, qv	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
53	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-5	1986	180	-45	10.0′	507.0′	qcv, talc, py	Au
54	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-6	1986	180	-45	10.0′	500.0′	qcv, py, qv, Fe	Au
55	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-7	1986	180	-45	22.0′	302.0′	ep?, serp, calc, py	Au
56	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-8	1986	180	-45	8.0′	500.0′	py, calc, ch, qcv, tour, ep	Au
57	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-9	1986	180	-45	15.0′	551.0′	py, calc, qv, tour, qcv	Au
49	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-10	1986	180	-50	6.0′	456.0′	py, ep, qcv, tour, asp?, Fe	Au
58	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-11	1986	180	-45	8.0′	350.0′	py, qv, qcv, tour, ch	Au
59	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-12	1986	180	-45	7.0′	407.0′	qcv, tour, py, calc	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
60	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-13	1986	180	-45	14.0′	507.0′	py, qv, tour, Fe	Au
61	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-14	1986	180	-45	6.0′	608.0′	carb, calc, py, qv, tour, Fe	Au
62	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-15	1986	180	-45	6.0′	500.0′	py, qv, tour, qcv, calc	Au
63	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-16	1986	180	-45	6.0′	507.0′	py, ep, qcv, calc, carb, tour, q, mag, hem, cp, jas, q	Au
62	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-17	1986	180	-45	4.0′	505.0′	py, qcv, jas, po, si, Fe	Au
64	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-18	1986	180	-45	4.0′	485.0′	ep, qv, qcv, py, si	Au
65	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-19	1986	180	-45	6.0′	607.0′	py, IF, qcv, carb, qv, po, mag, tour	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
54	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-20	1986	180	-65	8.0′	300.0′	qv, py	Au
66	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-21	1986	180	-45	6.0′	595.0′	py, qv, tour, si, qcv, cp	Au
67	MacMillan Energy Corp. Ltd. (WP-Mishibishu-4)	M86-22	1986	180	-45	6.0′	522.0′	Fe, Au?, py, IF, carb, qv, mag	Au
61	MacMillan Energy Corp. Ltd. (WP-Mishibishu-3)	M-23	1986	S	-75	1.22m	63.09m	calc, si, py	Au
61	MacMillan Energy Corp. Ltd. (WP-Mishibishu-3)	M-24	1986					No drill logs provided	
63	MacMillan Energy Corp. Ltd. (WP-Mishibishu-3)	M-25	1986					No drill logs provided	
68	MacMillan Energy Corp. Ltd. (WP-Mishibishu-3)	M-26	1986	S	-50	1.83m	139.29m	ep, calc, py, tour, fu, cp, qcv	Au, Ag
69	MacMillan Energy Corp. Ltd. (WP-Mishibishu-3)	M-27						No drill logs provided	

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
70	MacMillan Energy Corp. Ltd. (WP-Mishibishu-3)	M-28						No drill logs provided	
71	MacMillan Energy Corp. Ltd. (WP-Mishibishu-3)	M-29						No drill logs provided	
72	MacMillan Energy Corp. Ltd. (WP-Mishibishu-3)	M-30						No drill logs provided	
72	MacMillan Energy Corp. Ltd. (WP-Mishibishu-3)	M-31						No drill logs provided	
68	MacMillan Energy Corp. Ltd. (WP-Mishibishu-3)	M-32						No drill logs provided	
73	MacMillan Energy Corp. Ltd. (WP-Mishibishu-3)	M-33						No drill logs provided	
73	MacMillan Energy Corp. Ltd. (WP-Mishibishu-3)	M-34						No drill logs provided	
74	MacMillan Energy Corp. Ltd. (WP-Mishibishu-3)	M-35						No drill logs provided	

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
74	MacMillan Energy Corp. Ltd. (WP-Mishibishu-3)	M-36						No drill logs provided	
75	MacMillan Energy Corp. Ltd. (WP-Mishibishu-3)	M-50	1986	Grid S	-60	3.05m	199.95m	qv, ank, qcv, tour, py, po, calc	Au, Ag
76	MacMillan Energy Corp. Ltd. (WP-Mishibishu-3)	M-51	1986	Grid S	-60	1.83m	60.96m	q, ank, calc, py, carb, qv, gt	Au, Ag
77	MacMillan Energy Corp. Ltd. (WP-Mishibishu-3)	M-52	1986	Grid S	-60	10.36m		Abandoned	
77	MacMillan Energy Corp. Ltd. (WP-Mishibishu-3)	M-53	1986	Grid S	-70	4.27m	90.22m	carb, si, ep, qcv, calc, q, tour	Au
78	MacMillan Energy Corp. Ltd. (WP-Mishibishu-3)	M-54	1986	Grid S	-45	2.44m	74.98m	q, calc, po, py, gf, cp	Au, Ag
79	MacMillan Energy Corp. Ltd. (WP-Mishibishu-3)	M-56	1986	S	-55	3.05m	59.74m	qv, ag or elec, cp, ank	
80	Granges Exploration Ltd. (Wp-Mishibishu-7)	M-57	1986	Grid S	-50	3.05m	124.05m	calc, q, py, gf, qv, qcv, tour?, si	Au, Ag

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
81	Granges Exploration Ltd. (Wp-Mishibishu-7)	M-58	1986	Grid S	-55	3.05m	60.05m	qv, py, si	Au, Ag
82	Granges Exploration Ltd. (Wp-Mishibishu-7)	M-59	1986	South	-45	3.05m	63.04m	calc, gf, py, qcv, fu, asp	Au, Ag
83	Granges Exploration Ltd. (Wp-Mishibishu-7)	M-60	1986	Grid S	-50	3.66m	63.09m	gf, calc, py, tour, po, ep, qcv	Au, Ag
84	Granges Exploration Ltd. (Wp-Mishibishu-7)	M-61	1986	Grid S	-45	3.93m	60.04m	ep, si, po, py	Au, Ag
85	Granges Exploration Ltd. (Wp-Mishibishu-7)	M-62	1986	S	-55	3.53m	63.09m	si, calc, py, po, qv, qcv, sp, fu, gf, asp	Au, Ag
86	Granges Exploration Ltd. (Wp-Mishibishu-7)	M-63	1986	S	-50	2.43m	136.24m	gf, py, asp, fu, qv, si	Au, Ag
87	Granges Exploration Ltd. (Wp-Mishibishu-7)	M-64	1986	S	-50	2.43m	60.04m	gf, py, qcv, qv	Au, Ag

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
88	Granges Exploration Ltd. (Wp-Mishibishu-7)	M-65	1986	S	-50	3.50m	63.09m	gf, py, qcv, po	Au, Ag
89	Granges Exploration Ltd. (Wp-Mishibishu-7)	M-66	1986	S	-45	2.74m	60.06m	gf, py, qcv	Au, Ag
90	Granges Exploration Ltd. (Wp-Mishibishu-7)	M-67	1986	S	-50	2.74m	61.87m	gf, py, po, si, fu	Au, Ag
91	Granges Exploration Ltd. (Wp-Mishibishu-7)	M-68	1986	S	-60	1.28m	56.99m	py, qv, ank, po, qcv, carb	Au, Ag
92	Granges Exploration Ltd. (Wp-Mishibishu-7)	M-69	1986	S	-50	3.96m	22.25m	qcv, py, carb	Au, Ag
92	Granges Exploration Ltd. (Wp-Mishibishu-7)	M-90	1986	S	-45	3.50m	63.09m	qcv, py, qv, carb	Au, Ag
93	Granges Exploration Ltd. (Wp-Mishibishu-7)	M-74	1986	?	-55	5.49m	57.91m	calc, carb, ep	Au, Ag
94	Granges Exploration Ltd. (Wp-Mishibishu-7)	M-77	1986	Grid S	-45	1.22m	66.14m	calc, ep, si, py	Au, Ag

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
95	Wasabi Resources Ltd. (Mp-Mishibishu-5)	MIS86-01	1986	180	-45	0.0′	215.0′	gf, py, carb, ch, IF, cp, si, qv, po	
96	Wasabi Resources Ltd. (Wp-Mishibishu-5)	MIS86-02A	1986	000	-45	5.0′	296.0′	si, IF, carb, ch, gt, po, cp, qv, py	
96	Wasabi Resources Ltd. (Wp-Mishibishu-5)	MIS86-02B	1986	000	-60	27.0′	127.0′	py, carb, gt, po, cp, qcv, qv	
97	Wasabi Resources Ltd. (42C/03SW 0033-C1) (Wp-Mishibishu-5)	MIS86-03	1986	180	-45	7.0′	253.0′	qcv, py, gf, carb, si	Au
98	Westfield Minerals Ltd. (Wp-Mishibishu-8)	408-84-10	1984	200	-47	6.0′	408.0′	jas, py, qcv, ank, fu, lim, ch, qv, cp, si	Au
99	Westfield Minerals Ltd. (Wp-Mishibishu-8)	408-84-11	1984	205	-55	4.0′	330.0′	py, si, qcv, ank, qv, ch, fu, jas	Au
100	Westfield Minerals Ltd. (Wp-Mishibishu-8)	408-84-12	1984	205	-57	13.0′	302.0′	py, si, calc, fu, qv, lim, hem, ch, carb	Au
101	Westfield Minerals Ltd. (Wp-Mishibishu-8)	408-84-13	1984	205	-56	6.0′	328.0′	py, mag, si, qcv, fu, qv	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
102	Westfield Minerals Ltd. (Wp-Mishibishu-8)	408-84-14	1984	205	-60	6.0′	986.0′	qv, qcv, si, py, ep, fu, ch	Au
103	Westfield Minerals Ltd. (Wp-Mishibishu-8)	408-84-15	1984	209	-48	10.0′	198.0′	py, lim, asp, carb	Au
103	Westfield Minerals Ltd. (Wp-Mishibishu-8)	408-84-16	1984	205	-60	8.0′	337.0′	py, lim, ch, qv, asp, ep	Au
104	Westfield Minerals Ltd. (Wp-Mishibishu-8)	408-84-17	1984	205	-49	10.0′	474.0′	carb, ch, py, hem, si, fu	Au
105	Westfield Minerals Ltd. (Wp-Mishibishu-8)	408-84-18	1984	180	-65	6.0′	981.0′	py, qv, tour, si, carb, fu, mag, ch, qcv, hem, ep, gf	Au
106	Westfield Minerals Ltd. (WP-Mishibishu-8)	408-84-19	1984	208	-45	6.0′	338.0′	py, cp, carb, ch, si, asp, ep, po, qv, fu, gf	Au
107	Westfield Minerals Ltd. (WP-Mishibishu-8)	469-84-20	1984	190	-45	6.0′	638.0′	qv, py, carb, fu, si, tour, ch, ep, hem, mag, asp, cp, Au	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
108	Westfield Minerals Ltd. (WP-Mishibishu-8)	408-84-21	1984	205	-45	10.0′	428.0′	si, lim, fu, py, cp, ch, po	Au
107	Westfield Minerals Ltd. (WP-Mishibishu-8)	469-84-22	1984	190	-70	4.0′	808.0′	qv, py, tour, ch, fu, cp, Au	Au
109	Westfield Minerals Ltd. (WP-Mishibishu-8)	408-84-23	1984	205	-47	8.0′	308.0′	carb, qv, si, hem, py	Au
110	Westfield Minerals Ltd. (WP-Mishibishu-8)	469-84-24	1984	190	-48	10.0′	458.0′	qv, tour, si, py, Au, qcv, Rh, carb	Au
111	Westfield Minerals Ltd. (WP-Mishibishu-8)	469-84-25	1984	190	-48	10.0′	398.0′	py, tour, qv, ch, si, calc, ep, fu, mag	Au
112	Westfield Minerals Ltd. (WP-Mishibishu-8)	469-84-26	1984	190	-45	12.0′	286.0′	py, qv, fu?, si, ch	Au
113	Westfield Minerals Ltd. (WP-Mishibishu-8)	469-84-27	1984	180	-45	18.0′	518.0′	py, carb, si, mag, ch, cp, Au, asp, sp, fu, qv	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
114	Westfield Minerals Ltd. (WP-Mishibishu-8)	469-84-28	1984	180	-45	20.0′	404.0′	carb, py, po, cp, sp, qcv, fu, qv, mag, ch, ep	Au
115	Westfield Minerals Ltd. (WP-Mishibishu-8)	469-84-29	1984	190	-70	16.0′	1260.0′	carb, py, qv, mag, cp, ep, qcv, fu, po, tour	Au
116	Westfield Minerals Ltd. (WP-Mishibishu-8)	469-84-30	1984	180	-45	8.0′	443.0′	carb, py, si, mag, cp, qcv, fu, gn, asp, hem, sp, ch, tour	Au
117	Westfield Minerals Ltd. (WP-Mishibishu-8)	469-84-31	1984	180	-45	9.8′	467.0′	carb, py, qv, mag, qcv, fu, ank, asp, gn, tour, S	Au
118	Westfield Minerals Ltd. (WP-Mishibishu-8)	469-84-32	1984	190	-45	22.6′	756.0′	ep, carb, py, lim, si, cp, qv, ch, asp, Au, qcv, fu, mag?, tour, gn, sp?	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
119	Westfield Minerals Ltd. (WP-Mishibishu-8)	469-84-33	1984	190	-45	24.0′	498.0′	carb, py, lim qv, fu, ank, ep, mag, si, ch, qcv, tour	Au
120	Westfield Minerals Ltd. (WP-Mishibishu-8)	469-84-34	1984	180	-70	11.0′	742.0′	qv, carb, qcv py, cp, tour, asp, si, mag, ch, ep	Au
121	Westfield Minerals Ltd. (WP-Mishibishu-8)	469-84-35	1984	190	-45	12.0′	357.0′	qcv, tour, fu py, ch, qv, si carb, gn, asp	Au
122	Westfield Minerals Ltd. (WP-Mishibishu-8)	469-84-36	1984	180	-45	11.0′	316.0′	qcv, tour, fu py, calc, si, mag, cp, hem, qv	Au
113	Westfield Minerals Ltd. (WP-Mishibishu-8)	469-84-37	1984	180	-70	12.0′	697.0′	carb, si, qv, asp, py, po, gn, cp, calc, ep	Au
106	Westfield Minerals Ltd. (WP-Mishibishu-8)	408-84-38	1984	208	-70	5.0′	837.0′	calc, gf, py, si, qv, asp, po, gn, ank, tour	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
122	Westfield Minerals Ltd. (WP-Mishibishu-8)	469-84-39	1984	238	-45	11.0′	317.0′	fu, carb, si, py, cp, gn, ep qv, mag, ch, Au	Au
123	Westfield Minerals Ltd. (WP-Mishibishu-8)	469-84-40	1984	216	-45	11.0′	297.0′	calc, py, si, carb, qv, hem mag	Au
124	Westfield Minerals Ltd. (WP-Mishibishu-8)	469-84-41	1984	180	-45	8.0′	323.0′	py, si, ank, talc, jas, gf dol, calc, ep	Au
125	Westfield Minerals Ltd. (WP-Mishibishu-8)	408-84-42	1984	306	-45	8.0′	537.0′	qcv, py, ch, cp, carb, qv, asp, gf, ep, fu, calc	Au
125	Westfield Minerals Ltd. (WP-Mishibishu-8)	408-84-43	1984	276	-47	6.0′	657.0′	qv, carb, py, qcv, si, ep, asp, ch, fu, gf, cp, sp?, gn	Au
125	Westfield Minerals Ltd. (WP-Mishibishu-8)	408-84-44	1984	205	-48	13.6′	394.0′	si, wol, calc gf, py, asp, qv, carb, po, cp, ep, Mo	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
126	Westfield Minerals Ltd. (WP-Mishibishu-8)	408-84-45	1984	190	-72	14.0′	1108.0′	carb, py, qv, calc, si, ank dol, tour, gn asp?, qcv	Au
127	Westfield Minerals Ltd. (WP-Mishibishu-8)	408-84-46	1984	180	-49	18.0′	417.0′	calc, qcv, py carb, tour, asp, ank	Au
128	Westfield Minerals Ltd. (WP-Mishibishu-8)	408-84-47	1984	205	-48	27.0′	401.0′	qcv, py, fu, ank, calc	Au
129	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-1	1985	188	-54	5.3′	497.0′	qv, py, carb, ank, fu, tour qcv, ch, mag, asp, gn, cp, Au	Au
130	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-2	1985	?	-82	0.0′	506.0′	si, ank, qv, qcv, asp, py, mag, calc, fu tour	Au
131	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-3	1985	168	-83	8.0′	307.0′	py, ank, sid, tour, qv, fu, si	Au
132	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-4	1985	222	-85	13.0′	288.0′	mag, ank, asp fu, py, si, qv tour, qcv	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
133	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-5	1985	180	-41	8.0′	236.5′	qcv, py, carb si, qv, fu, po sp, cp	Au
134	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-6	1985	180	-65	12.0′	347.0′	qcv, qv, py, si, asp, tour gn?	Au
135	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-7	1985	181	-54	6.0′	657.0′	carb, fu, qv, qcv, py, ank, mag, ch, hem, si, calc	Au
136	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-8	1985	180	-43	10.0′	378.0′	mag, py, qcv, qv, ank, si, tour, asp, gn cp, Au, fu	Au
135	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-9	1985	183	-46	6.0′	484.0′	fu, qv, qcv, py, ank, mag, ep, asp, tour gn, Au, cp	Au
135	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-10	1985	182	-60	6.0′	498.0′	qv, qcv, fu, carb, py, mag hem, si, ank, asp, Au	Au
136	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-11	1985	183	-44	12.0′	397.0′	qv, ank, mag, si, py, carb, tour, fu, asp cp, qcv	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
137	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-12	1985	187	-43	6.0′	628.0′	carb, qcv, py qv, tour, fu, asp, mag, ank Au, cp, gn, si	Au
137	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-13	1985	185	-57	4.0′	638.0′	mag, qv, qcv, py, ep, carb, fu, tour, po, ank, cp, asp, Au, mo	Au
137	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-14	1985	182	-66	4.0′	608.0′	qv, ank, fu, py, cp, qcv, si, asp	Au
138	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-15	1985	177	-47	8.0′	299.0′	ank, si, py, qv, qcv, hem, fu, cp, asp	Au
139	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-16	1985	182	-68	16.0′	458.0′	py, qv, ank, hem, cp, qcv, tour, si, po, calc, fu, asp	Au
140	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-17	1985	188	-57	12.0′	508.0′	carb, qcv, py ank, cp, gn, asp, tour, fu qv, mag, ch, Au	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
141	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-18	1985	194	-42	4.0′	307.0′	si, ank, py, carb, fu, qv, qcv	Au
142	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-19	1985	185	-46	8.0′	447.0′	ank, py, qcv, si, hem, ch, calc, cp, qv, asp	Au
142	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-20	1985	187	-61	8.0′	416.0′	ank, qcv, py, hem, fu, asp, cp, qv, tour	Au
143	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-21	1985	180	-45	12.0′	292.0′	qcv, py, ank, si, qv, tour, asp, cp, gn, Au	Au
129	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-22	1985	190	-60	10.0′	613.0′	carb, ank, py qcv, qv, tour si, fu, mag, Au	Au
142	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-23	1985	195	-54	6.0′	587.0′	carb, py, ank po, asp, fu, qv, tour, mag cp, Au	Au
15	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-24	1985	187	-48	7.0′	527.0′	carb, py, ank fu, qv, qcv, mag, asp	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
144	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-25	1985	184	-51	10.0′	598.0′	qcv, py, qv, ank, calc, fu tour, asp	Au
144	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-26	1985	184	-42	12.0′	577.0′	qcv, py, calc qv, po, tour, ank, fu, hem, asp, cp, gn, Au, mag	Au
145	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-27	1985	182	-42	28.0′	379.0′	calc, qcv, py ank, asp, qv, cp, ep, fu	Au
145	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-28	1985	182	-67	22.0′	377.0′	carb, qcv, py mag, ank, asp tour, Au, ep	Au
146	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-29	1985	183	-67	22.0′	427.0′	py, hem, ank, si, qv, qcv, asp, cp, ep, po	Au
15	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-30	1985	183	-57	10.0′	600.0′	py, qv, asp, cp, qcv, ank, tour	Au
15	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-31	1985	183	-43	10.0′	421.0′	ank, fu, qv, qcv, py, asp, cp	Au

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
Map Drill Loc. No.	Company Name								
147	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-32	1985	182	-53	4.0′	387.0′	calc, qv, py, ank, hem, qcv fu, si, cp	Au
148	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-33	1985	184	-54	10.0′	597.0′	qv, py, ank, tour, qcv, fu cp, calc, si, hem, asp	Au
149	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-34	1985	180	-60	10.0′	497.0′	ank, calc, py qcv, tour, cp fu, hem, qv, sp, gn, asp	Au
149	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-35	1985	185	-46	13.0′	507.0′	ank, qcv, py, calc, tour, cp, si, hem, mag, fu, qv, cp, sp, asp, gn	Au
150	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-36	1985	184	-47	12.5′	357.0′	calc, ank, py hem, si	Au
19	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-37	1985	181	-43	7.0′	412.0′	si, py, ank, qcv, fu, tour calc, asp, gn qv, mag, hem, cp	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
19	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-38	1985	184	-55	12.5′	557.0′	qv, ank, qcv, tour, py, hem fu, calc, si, mag*	Au
151	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-39	1985	189	-42	12.0′	597.0′	ank, calc, py qcv, hem, fu, tour, qv, Au, gn, qv, cp	Au
152	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-40	1985	186	-44	10.0′	423.0′	ank, fu, py, qv, tour, si, calc, Au, gn, asp	Au
153	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-41	1985	182	-45	12.0′	567.0′	calc, ank, fu qv, py, tour, hem, gn, asp, si, cp, qcv	Au
154	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-42	1985	182	-45	10.0′	457.0′	ank, py, qv, asp, fu, gn, cp, hem, si, sp, qcv	Au
155	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-43	1985	180	-47	11.0′	647.0′	ank, calc, qv py, si, hem, fu, tour, gn, cp, mag	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
156	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-44	1985	182	-46	12.0′	467.0′	ank, hem, py, mag*, qv, fu, qcv, si, gn, cp, tour, Au, asp	Au
157	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-45	1985	180	-45	13.7′	352.0′	ank, fu, qv, py, gn, qcv, asp	Au
158	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-46	1985	180	-45	12.0′	739.0′	calc, ank, py si, qcv, qv, tour, fu, hem mag, gn, cp	Au
159	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-47	1985	180	-46	10.0′	807.0′	qv, py, ank, tour, cp, fu, calc, si, hem mag*, qcv, gn asp	Au
160	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-48	1985	180	-44	10.0′	465.0′	fu, qcv, ank, py, si, qv, gn tour, cp	Au
161	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-50	1985	185	-42	5.0′	507.0′	carb, py, qcv mag, qv, ank, fu, asp, tour	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
162	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-51	1985	178	-50	10.0′	527.0′	carb, py, qcv ank, asp, qv, tour, fu	Au
163	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-52	1985	183	-55	2.0′	467.0′	carb, py, cp, ank, qv, tour qcv, fu, hem, mag, ep, asp, Au	Au
164	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-53	1985	192	-42	8.0′	503.0′	carb, qcv, py qv, fu, ank, mag, tour, gn asp, Au	Au
165	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-54	1985	189	-55	12.0′	557.0′	qcv, qv, py, ank, po, hem, tour, calc, mag, asp	Au
166	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-55	1985	187	-46	4.0′	307.0′	carb, py, qv, qcv, mag, ank cp, asp, gn, tour?	Au
167	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-56	1985	183	-64	14.0′	421.0′	carb, mag, cp ank, qcv, qv, py, asp, si	Au

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DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
168	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-57	1985	105	-41	5.0′	605.0′	carb, qv, py, mag, hem, ep, si, qcv, tour	Au
169	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-58	1985	108	-44	2.0′	351.0′	si, carb, qv, ank, tour	Au
170	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-59	1985	108	-44	28.0′	401.0′	carb, qv, qcv tour, py, cp, asp	Au
171	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-60	1985	190	-44	10.0′	381.0′	calc, qv, py, po, cp, qcv, tour, hem, si Au	Au
172	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-61	1985	253	-43	22.0′	398.0′	qcv, qv, si, py, mag, hem, tour, carb	Au
173	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-62	1985	165	-45	10.0′	353.0′	py, mag*, qv, si, cp, qcv, ank, po, hem, calc, tour	Au
174	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-63	1985	165	-48	10.0′	498.0′	ank, qcv, py, tour, qv, cp, calc, si	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
175	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-64	1985	185	-58	10.0′	428.0′	qv, ank, py, tour, qcv, cp hem, asp, fu	Au
145	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-65	1985	184	-42	22.0′	324.0′	serp, calc, qv, hem, si, py, asp, ank	Au
176	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-66	1985	185	-58	9.5′	458.0′	ank, qv, qcv, py, hem, tour mag, calc, fu gn, si, asp, cp, Au	Au
177	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-67	1985	186	-58	3.0′	538.0′	calc, py, ank qv, qcv, fu, mag, asp, cp, gn	Au
175	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-68	1985	182	-44	3.7′	366.0′	ank, qcv, py, qv, asp, calc ep, si, gn	Au
178	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-69	1985	188	-55	4.0′	548.0′	py, ank, qcv, calc, qv, si, tour, fu, asp	Au
179	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-70	1985	180	-60	3.0′	688.0′	qv, calc, ep, qcv, py, ank, cp, si, tour, asp	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
162	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-71	1985	180	-46	8.0′	448.0′	ank, qcv, py, calc, si, gn, asp, qv, fu	Au
180	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-72	1985	179	-42	11.5′	558.0′	qcv, py, cp, hem, si, ep, calc, qv	Au
162	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-73	1985	180	-48	12.0′	578.0′	qcv, calc, py ank, qv, tour	Au
181	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-74	1985	186	-45	9.0′	508.0′	si, calc, py, cp, qv, qcv, ank, si	Au
182	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-75	1985	180	-60	6.0′	548.0′	py, cp, calc, qv, qcv, ank, tour, asp, fu gn, si	Au
183	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-76	1985	180	-51	6.0′	569.0′	calc, qv, py, tour, qcv, si ank, gn, asp	Au
183	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-77	1985	180	-66	12.0′	589.0′	carb, tour, Au, py, calc, qv, hem, ank, qcv, fu, asp, mag*, gn	Au

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DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
184	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-78	1985	180	-65	12.0′	679.0′	qv, py, ank, tour, cp, si, calc, qcv, gn mag*, asp	Au
185	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-79	1985	182	-61	12.0′	499.0′	calc, qcv, py ank, tour, fu qv, hem, mag* cp, asp, gn, si	Au
186	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-80	1985	180	-57	5.0′	559.0′	ank, qcv, py, fu, qv, calc, hem, mag, gn, asp	Au
186	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-81	1985	180	-45	12.0′	389.0′	fu, qcv, gn, cp, asp, Au, qv, py, tour, ank, si, asp, mag*	Au
187	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-100	1985	180	-59	6.0′	639.0′	qcv, py, qv, tour, carb, ank, mag, asp fu, gn, cp	Au
188	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-101	1985	182	-55	6.0′	695.0′	qv, py, tour, cp, calc, ank qcv, Au, carb hem, gn, asp, Ag	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
189	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-102	1985	180	-56	12.0′	707.0′	calc, py, cp, qcv, si, ank, tour, qv, fu, ep	Au
190	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-103	1985	180	-45	22.0′	429.0′	calc, ank, py qcv, si, cp, asp, tour, Au	Au
190	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-104	1985	182	-66	20.0′	429.0′	calc, py, qcv ank, fu, tour cp, qv, asp, si, gn	Au
191	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-105	1985	180	-66	9.2′	519.0′	ank, qcv, qv, py, cp, tour, calc, fu, si, asp, gn	Au
192	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-106	1985	185	-56	4.0′	649.0′	qv, py, cp, si tour, ank, fu qcv, hem, gn, mag*, asp, Au	Au
192	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-107	1985	180	-71	2.0′	679.0′	qv, qcv, calc cp, py, ank, fu, si, tour, Au	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
193	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-108	1985	182	-50	13.0′	809.0′	qcv, qv, tour py, cp, ank, fu, calc, si, asp, Au	Au
193	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-109	1985	180	-60	6.0′	728.0′	calc, tour, py, qcv, ank, qv, fu, si, cp asp, gn, hem, mag	Au
194	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-110	1985	184	-64	11.0′	746.0′	po, calc, qcv ank, si, tour qv, py, fu, gn Au	Au
195	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-111	1985	180	-64	12.0′	719.0′	qv, py, ank, qcv, hem, si, calc, tour, mag*, hem, si	Au
148	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-112	1985	180	-70	8.0′	759.0′	py, qv, tour, ank, qcv, cp, Au, si, calc, fu, hem, gn	Au
196	Muscocho Explorations Ltd. (WP-Mishibishu-17)	85-113	1985	180	-69	8.0′	765.0′	ank, calc, py qv, qcv, tour cp, hem, fu, mag*, gn	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
135	Muscocho Explorations Ltd. (WP-Mishibishu-17)	84-36	1984	180	-45	?	327.0′		Au
135	Muscocho Explorations Ltd. (WP-Mishibishu-17)	Extension of 84-36	1985	180	-45	?	327-410′	qv, tour, py, gn, asp, Au?, fu	Au
197	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-01A	1986	180	-60	12.6′	277.0′	qcv, calc, py ank, qv, py, cp, gn	Au
198	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-01B	1986	180	-60	13.0′	1123.0′	carb, calc, qcv, py, asp, si, tour, mag gn, cp, ank	Au
199	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-02	1986	180	-60	12.0′	1277.0′	calc, si, qcv py, qv, asp, mag, gn, tour ank, Au, fu	Au
200	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-03	1986	180	-60	9.0′	1537.0′	calc, qv, hem gn, si, carb, py, qcv, tour sp, cp, asp, mag, ank	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
201	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-04	1986	180	-60	7.8′	1457.0′	calc, qv, py, tour, si, po, cp, qcv, ank, gn, fu, mag, asp, Au	Au
202	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-05	1986	180	-60	9.5′	1347.0′	qcv, calc, py tour, asp, gn qv, ank, Au, cp, fu	Au
203	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-06	1986	180	-45	6.5′	357.0′	si, qcv, calc asp, mag, hem fu, qv, tour, ank, asp, gn	Au
204	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-07	1986	180	-60	11.0′	467.0′	qcv, si, tour py, ank, asp, calc, hem, fu	Au
205	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-08	1986	180	-60	11.0′	557.0′	qcv, calc, py ank, qv, si, tour, gn, asp fu, mag, hem, cp	Au
206	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-09	1986	180	-60	14.0′	1417.0′	qcv, rho, py, ep, calc, si, tour, gn, sp, cp, ank, Au, asp, fu	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
207	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-10	1986	180	-60	6.0′	880.0′	calc, qcv, py tour, spec?, si, ank, asp, mag, fu	Au
208	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-11	1986	180	-45	10.7′	307.0′	ank, fu, qv, py, tour, gn, qcv, calc	Au
209	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-12	1986	180	-45	5.0′	187.0′	si, ank, qv, py, gn, tour, asp, Au, fu, qcv	Au
210	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-13	1986	180	-45	54.5′	317.0′	ank, qv, py, qcv, mag, si, fu, calc, asp gn, Au, carb, tour	Au
211	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-14	1986	180	-45	63.6′	507.0′	qcv, qv, py, carb, mag, si ank, tour, gn calc, asp	Au
211	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-15	1986	180	-60	45.6′	607.6′	qcv, ank, qv, py, mag, hem, tour, cp, asp si, calc	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
212	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-16	1986	180	-45	30.2′	317.0′	qcv, py, tour qv, ank, carb calc, si, asp gn?	Au
213	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-17	1986	180	-45	23.5′	287.0′	ank, carb, py qcv, qv, tour si, calc, asp gn, fu	Au
214	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-18	1986	180	-45	16.6′	267.0′	ank, qcv, py, calc, Au, si	Au
215	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-19	1986	180	-45	13.0′	257.0′	ank, mag, qcv py, qv, tour, asp, calc, si fu, carb, gn	Au
216	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-20	1986	180	-55	8.0′	637.0′	qcv, py, calc si, tour, rho qv, ep, ank, asp, fu, mag	Au
217	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-21	1986	180	-45	25.4′	397.0′	ank, si, py, calc, tour, qv, mag, rho, asp, qcv	Au

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DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
218	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-22	1986	180	-50	7.6′	457.0′	qcv, py, tour qv, ank, si, calc, cp, fu, hem, mag, rho asp	Au
218	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-23	1986	180	-60	8.8′	527.0′	py, qcv, ank, si, calc, fu, ep, mag, cp, asp, gn, tour	Au
219	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-24	1986	180	-45	5.0′	467.0′	qcv, qv, tour py, si, ank, fu, calc, mag hem, asp, gn, Au	Au
219	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-25	1986	180	-60	11.0′	527.0′	qcv, ank, asp po, py, calc, si, cp, mag, hem, rho, asp	Au
220	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-26	1986	180	-55	7.0′	537.0′	calc, ank, py si, qv, tour, ep, hem, mag, Au, qcv	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
221	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-27	1986	180	-60	5.5′	357.0′	py, ank, si, tour, qv, hem mag, calc, Au asp, gn?	Au
222	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-28	1986	180	-45	13.0′	307.0′	py, ank, si, calc, qcv, ep hem, mag, cp? tour	Au
223	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-29	1986	180	-45	13.0′	307.0′	py, ank, carb qcv, tour, gn ep, hem, mag, Au, asp	Au
224	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-30	1986	180	-60	7.0′	397.0′	ank, si, py, qv, calc, qcv ep, cp, Au	Au
224	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-31	1986	180	-45	10.5′	337.0′	ank, si, py, qcv, ep, calc tour, gn, asp	Au
225	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-32	1986	180	-60	7.0′	507.0′	carb, si, py, ank, calc, ep tour, qcv, mag, asp	Au
225	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-33	1986	180	-60	10.0′	407.0′	si, ank, qv, qcv, py, calc Au	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
226	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-34	1986	180	-45	10.0′	387.0′	ank, py, qcv, mag, si, hem, tour, asp	Au
227	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-35	1986	180	-65	10.0′	497.0′	qcv, ank, py, tour, calc, mag, asp, si	Au
228	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-36	1986	180	-65	17.0′	517.0′	calc, qcv, py ank, si, tour cp, ep, mag	Au
228	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-37	1986	180	-50	21.5′	477.0′	qcv, ank, py, calc, tour, cp, spec, si, mag, ep	Au
229	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-38	1986	180	-45	25.0′	407.0′	ank, qv, py, qcv, si, calc tour, ep	Au
230	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-39	1986	180	-45	8.5′	357.0′	si, py, qcv, ank, calc, ep cp, tour	Au
230	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-40	1986	180	-60	11.5′	397.0′	si, qcv, calc mag, py, ep, ank, qv	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
231	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-41	1986	180	-45	13.0′	257.0′	qcv, ep, calc si, py, ank, fu, qv, tour	Au
232	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-42	1986	180	-45	7.0′	237.0′	calc, qv, py, tour, si, mag qcv, cp, asp	Au
233	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-43	1986	170	-45	12.0′	467.0′	ank, qv, tour qcv, py, calc si	Au
234	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-44	1986	180	-45	7.0′	267.0′	calc, qv, py, tour, ep, mag ank, si, qcv, asp	Au
234	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-45	1986	180	-60	7.0′	342.0′	ep, qcv, calc ank, tour, py si, mag, qv, asp	Au
235	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-46	1986	180	-45	12.0′	277.0′	ank, qv, tour py, si, calc, qcv	Au
235	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-46B	1986	180	-45		277-337′	qv, py, tour, asp, qcv, si, calc	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
236	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-47	1986	180	-45	13.0′	207.0′	calc, si, qcv ank, py, ep, fu, asp, qv	Au
237	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-48	1986	180	-60	12.0′	547.0′	calc, qv, py, si, tour, cp, ep, fu, ank	Au
238	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-49	1986	180	-45	5.3′	217.0′	ank, py, qv, si, ch, qcv, mag, calc, fu tour, asp	Au
239	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-50	1986	180	-45	7.0′	327.0′	calc, ep, ank tour, qv, py, qcv, spec, si mag, ch	Au
235	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-51	1986	180	-60	6.0′	397.0′	qcv, si, ank, qv, ep, cp, py tour, calc, mag, hem	Au
240	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-52	1986	180	-45	14.5′	237.0′	ank, mag, ep, hem, cp, calc qcv, si, py, tour, fu, asp	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
240	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-53	1986	180	-45	14.5′	267.0′	py, carb, mag tour, hem, qv calc, si, ep, ank, asp	Au
240	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-54	1986	180	-45	14.3′	255.0′	ank, calc, py si, hem, mag, fu, asp, tour	Au
241	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-55	1986	180	-60	10.0′	647.0′	carb, mag, qv tour, py, qcv ank, si, calc Au, rho, ep, hem, asp, gn	Au
242	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-56	1986	180	-60	3.0′	907.0′	qcv, ep, mag, si, py, qv, fu tour, calc, ank, Au, hem, asp	Au
243	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-57	1986	180	-60	11.0′	747.0′	si, ank, py, calc, tour, cp, qcv, mag, qv, hem, ep, asp	Au
244	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-58	1986	180	-60	10.3′	857.0′	calc, qcv, py cp, si, mag, tour, ep, ank qv, hem	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
245	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-59	1986	180	-60	13.2′	767.0′	si, qcv, tour py, calc, ank Au, ep, asp, gn	Au
246	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-60	1986	180	-60	4.8′	857.0′	si, qv, py, cp calc, tour, ep, mag, ank, qcv, hem, asp gn	Au
247	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-61	1986	180	-60	5.5′	847.0′	calc, ank, qv py, si, qcv, cp, tour, mag po	Au
248	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-62	1986	180	-60	6.5′	702.0′	qcv, py, po, tour, ank, si calc, hem, ep cp, qv	Au
249	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-63	1986	180	-45	14.5′	377.0′	calc, ep, si, py, qcv, hem, mag, tour, cp ank, qv	Au
246	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-64	1986	180	-60	22.6′	777.0′	qv, tour, py, ep, qcv, hem, ank, calc, si mag, asp	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
250	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-65	1986	178	-60	7.5′	1877.0′	calc, qcv, py qv, hem, si, rho, po, ank, tour, ep	Au
123	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-66	1986	180	-60	14.3′	437.0′	qcv, ep, calc ank, py, qv, si, fu, asp, cp	Au
191	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-67	1986	180	-60	6.0	577.0′	ep, qcv, calc ank, py, tour mag, cp, fu, gn, Au	Au
251	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-68	1986	180	-45	6.1′	267.0′	ank, qcv, py, mag, gn, si, fu, hem	Au
252	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-69	1986	180	-45	11.7′	237.0′	ank, qcv, py, tour, fu, gn, asp	Au
253	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-70	1986	180	-45	9.0′	377.0′	mag, qcv, qv, py, fu, ank, si, hem, po, tour, asp	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
254	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-71	1986	180	-45	11.0′	577.0′	ank, si, qcv, py, tour, hem calc, mag, po qv, Au, asp, cp	Au
255	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-72	1986	180	-45	10.5′	297.0′	ank, py, qcv, spec, mag, cp si, calc, asp tour	Au
256	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-73	1986	180	-45	8.5′	587.0′	py, ank, si, qcv, mag, po, calc, tour, qv	Au
254	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-74	1986	180	-60	4.5′	627.0′	qcv, ank, py, tour, calc, hem, Au	Au
257	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-75	1986	180	-45	9.0′	567.0′	calc, ank, py qcv, po, cp	Au
258	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-76	1986	180	-45	9.0′	607.0′	qcv, py, ank, tour, ep, po, hem, mag, qv, spec, cp, asp Au	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
259	Muscocho Explorations Ltd. (WP-Mishibishu-16)	86-77	1986	180	-45	11.5'	597.0'	qcv, py, si, ank, calc, po hem, mag, cp, tour, asp	Au
261	Muscocho Explorations Ltd. (WP-Mishibishu-16)	U-87-1	1987	350	0	UG drillho le	*337.0'	fu, qcv, calc gn, asp, py, cp, sp, Au	Au
261	Muscocho Explorations Ltd. (WP-Mishibishu-16)	U-87-2	1987	Grid North 0	-3	UG drillho le	320.0'	ank, fu, qcv, calc, gn, asp cp, py, gf	Au
261	Muscocho Explorations Ltd. (WP-Mishibishu-16)	U-87-3	1987	Grid North 0	+58	UG drillho le	231.0'	ank, carb, py qcv, fu, si, asp	Au
261	Muscocho Explorations Ltd. (WP-Mishibishu-16)	U-87-4	1987	Grid North 0	+36	UG drillho le	246.0'	ank, calc, cp qcv, hem, mag fu, asp, gn, py	Au
261	Muscocho Explorations Ltd. (WP-Mishibishu-16)	U-87-5	1987	Grid North 0	+14	UG drillho le	255.0'	ank, calc, fu qv, py, qcv, gn, asp, po, Au	Au
261	Muscocho Explorations Ltd. (WP-Mishibishu-16)	U-87-6	1987	Grid North 0	-11	UG drillho le	300.0'	ank, qcv, cp, calc, fu, ep, py, asp, gn, Au	Au

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
261	Muscocho Explorations Ltd. (WP-Mishibishu-16)	U-87-7	1987	Grid North 0	-17	UG drillhole	335.0'	ank, qcv, gn, calc, cp, py, fu, asp, Au, sp	Au
262	Muscocho Explorations Ltd. (WP-Mishibishu-16)	U-87-8	1987	345	-3	UG drillhole	212.0'	ank, qcv, fu, asp, gn, sp, Au, cp	Au
262	Muscocho Explorations Ltd. (WP-Mishibishu-16)	U-87-9	1987	Grid North 0	-7	UG drillhole	234.0'	ank, fu, calc qcv, asp, Au, py, cp, gn, sp	Au
260	MacMillan Energy Corp. Ltd. (42C/03SW 0032 B1)	1	?	?	?	?	?		
260	MacMillan Energy Corp. Ltd. (42C/03SW 0032 B1)	2	?	?	?	?	?		
260	MacMillan Energy Corp. Ltd. (42C/03SW 0032 B1)	3	?	?	?	?	?		
260	MacMillan Energy Corp. Ltd. (42C/03SW 0032 B1)	4	?	?	?	?	?		

DRILLHOLE SUMMARY									
Map Drill Loc. No.	Company Name	Company Drillhole Number	Date Drill-ed	Bearing and Azimuth	Init. Dip of Hole	Over-burden Thick-ness	Hole Length	Log Mineraliza-tion	Assay data in log
260	MacMillan Energy Corp. Ltd. (42C/03SW 0032 B1)	5	?	?	?	?	?		
260	MacMillan Energy Corp. Ltd. (42C/03SW 0032 B1)	unnumbered	?	?	?	?	?		
260	MacMillan Energy Corp. Ltd. (42C/03SW 0032 B1)	unnumbered	?	?	?	?	?		

Map Index No.	AIRBORNE GEOPHYSICAL SURVEY DATA		Flight Altitude	Flight Line Direct.	Flight Line Spacing
	-by -for -year	Type of Survey			
15	-by Aerodat Ltd. -for Harbinson Mining and Oil Group -1983	-a. Aerodat/Geonics 3 frequency electromagnetic system -b. Herz 2A VLF-EM system -c. Geometrics G-803 proton precession type magnetometer	60m	N-S	660'
24	-by Aerodat Ltd. -for MacMillan Energy Corp. Ltd. -1983	-a. Aerodat/Geonics 3 frequency electromagnetic system -b. Herz 2A VLF-EM system -c. Geometrics G-803 proton precession type magnetometer	60m	NE-SW	660'
29	-by Aerodat Ltd. -for Brass Ring Res. Ltd. -1983	-a. Aerodat/Geonics 3 frequency electromagnetic system -b. Herz 2A VLF-EM system -c. Geometrics G-803 proton precession type magnetometer	60m	N-S	660'
30	-by Aerodat Ltd. -for Central Crude Ltd. -1983	-a. Aerodat/Geonics 3 frequency electromagnetic system -b. Herz 2A VLF-EM system -c. Geometrics G-803 proton precession type magnetometer	60m	N-S	660'

Map Index No.	AIRBORNE GEOPHYSICAL SURVEY DATA		Flight Altitude	Flight Line Direct.	Flight Line Spacing
	-by -for -year	Type of Survey			
31	-by McPhar Geophysics -for Falconbridge Nickel Mines Ltd. -1970	-a. McPhar KEM electromagnetic system -b. Proton free precession type magnetometer	450′	N-S	1/12mile and 1/6 mile
46	-by Terraquest Ltd. -for San Paulo Explorations Inc. -1987	-a. GSM-9BA GEM Systems proton precession type magnetometer -b. Herz Totem 2A VLF-EM system	100m	360	100m
47	-by Dighem Surveys and Processing Inc. -for Muscocho Explorations Ltd. -1987	-a. Scintrex cesium magnetometer -b. Sonotek PMH 5010 proton magnetometer -c. Herz Totem 1A VLF-EM system	30m EM bird height	032-212	100m
51	-by Aerodat Ltd. -for Harbinson Mining and Oil Group -1988	-a. Aerodat/Geonics 3 frequency electromagnetic system -b. Herz 2A VLF-EM system -c. Geometrics G-803 proton precession type magnetometer	60m	000-180	200m

Map Index No.	AIRBORNE GEOPHYSICAL SURVEY DATA		Flight Altitude	Flight Line Direct.	Flight Line Spacing
	-by -for -year	Type of Survey			
54	-N-14				
56	-by Terraquest Ltd. -for Lahla Administrative Services Ltd. -1988	-a. Scintrex cesium magnetometer -b. Herz Totem 2A VLF-EM system	100m	360	100m
57	-by Terraquest Ltd. -for Daiwan Engineering Ltd. -1989	-a. Scintrex B1W 2321H8 cesium magnetometer -b. Herz Totem 2A VLF-EM system	100m	360	100m
59	-by Aerodat Ltd. -for Dominion Explorers Inc. -1988	-a. Aerodat 3 frequency electromagnetic system -b. Herz Totem 2A VLF-EM system -c. Scintrex V1W 2321H8 cesium magnetometer	60m	045-225	125m

Map Site No.	GEOCHEMICAL SURVEY DATA		By	Reference(s)
	Type of survey	Analysis for		
1	Humus Sampling	Au	Westfield Minerals Ltd.	file 42C/03SW 0017
2	Humus Sampling	Au, Pb, Zn, Mo	Westfield Minerals Ltd.	file 42C/03SW 0021-A1
3	Humus Sampling	Au, Pb, Zn, Mo	Westfield Minerals Ltd.	file 42C/03SW 0021-B1
4	Humus Geochemistry	Au, As	Westfield Minerals Ltd.	file 42C/03SW 0023
5	Rock Sampling	Au, Ag	Westfield Minerals Ltd.	file 42C/03SW 0023
6	Soil Sampling	Au	MacMillan Energy Corp. Ltd.	file 42C/03SW 0027
7	Soil Sampling	Au	MacMillan Energy Corp. Ltd.	file 42C/03SW 0028
8	Rock & Humus Sampling	Au, Ag, Cu, Pb, Mo, Zn	Wasabi Resources Ltd.	file 42C/03SW 0029
9	Humus Sampling	Au	Westfield Minerals Ltd.	file 42C/03SW 0030
10	Rock & Humus Sampling	Au, Ag, Pb, Zn	Wasabi Resources Ltd.	file 42C/03SW 0031
11	Stream & Spring Sediment	Cu, Ni, Zn, Co, Mn and cold extractable heavy metals	Wolfe, W.J. for the OGS	ODM GR 158 and 6 Maps
12	Lake Sediment and Water Geochemical	Zn, Cu, Pb, Ni, Co, Ag, Mn, As, Mo, Fe, U, F	OGS-GSC	OGS OFR 5267

Map Site No.	GEOCHEMICAL SURVEY DATA		By	Reference(s)
	Type of survey	Analysis for		
13	Soil Sampling	Au	MacMillan Energy Corp. Ltd.	file 42C/03NW 0017
14	Soil Sampling	Au	Muscocho Explorations Ltd.	file WP-Mishibishu-2
15	Soil Sampling	Au, As, Pb, Zn	Dominion Explorers Inc. Wasabi Resources Ltd.	file WP-Mishibishu-12
16	Soil Sampling	Au, Ag, As, Cu, Pb, Zn	Dominion Explorers Inc. Wasabi Resources Ltd.	file WP-Mishibishu-13
17	Soil Sampling	Au	Noranda Exploration Co. Ltd.	file WP-Mishibishu-19
18	Soil Sampling	Au, As	Noranda Exploration Co. Ltd.	file WP-Point Isacor-2
19	Humus Sampling	Au	Westfield Minerals Ltd.	file 42C/03SW 0025

GEOCHRONOLOGY DATA – AGE DATING

Site No. on Map	Method	Material	Reference	Result

MISHIBISHU LAKE

AERIAL PHOTOS; MOSAICS; IMAGERY

The following items are available for inspection at the Resident Geologist Office

(a) Aerial Photographs

1. 1" = 1/4 mile, black and white: 1980; See Addenda (p. 15-1) for details

(b) Photomosaics

(c) Satellite Imagery

1. Canada Centre for Remote Sensing Side Aperture Radar - H880175 (C) 93, May 1988 1:50 000 (Black and White)

2. Canada Centre for Remote Sensing Side Aperture Radar - H880173 (C) 85, May 1988 1:50 000 (Black and White)

3. Experimental Composite of Airborne Radar (SAR) and Total Field Aeromagnetics, SAR Data Aquired 24-May-88 by CCRS Radar Development Program. Total Magnetic Field Derived from Digital Archives of OGS Map 81 143 R.B. Barlow. Processed at Ontario Centre for Remote Sensing/MNR 10-Feb-89 1:50 000

4. Experimental Composite of Airborne Radar (SAR) and Total Field Aeromagnetics, SAR Data Aquired 24-May-88 by CCRS Radar Development Program. Total Magnetic Field Derived from Digital Archives of OGS Map 81 143 R.B. Barlow. Processed at Ontario Centre for Remote Sensing/MNR 10-Feb-89 1:100 000

TOPOGRAPHIC MAPS (selected)			
Scale	Year	Name and/or Number	By
1:50 000	1979	Mishibishu Lake: 42C/3	Surveys and Mapping Branch: Department of Energy, Mines and Resources
1:100 000	1980	Pukaskwa River: NTS 42C/SW and part of 42D/SE	Surveys and Mapping Branch: Ministry of Natural Resources

NEWSPAPER CLIPPINGS FILE			
PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
George Cross Newsletter	/ /		Windara Minerals Ltd.
?	03/08/47		Bishu Mines Ltd.
?	03/13/47		Bishu seeks drill funds
?	09/25/47		Visible gold reported in Mishibishu
?	12/11/47		Bishu Drillholes cut good values
?	08/08/48		Crews at Bishu and Amichi
?	08/25/49		Bishu Mines Ltd.
?	01/19/50		Bishu Mines financing on royalty basis
?	05/17/51		New Bishu program well under way Deeper Drilling on Previous Gold Showings - Hope to Develop Commercial Shoots
Northern Miner	08/27/81		St. Fabien, Westfield make agreement to explore gold bet
George Cross Newsletter	10/15/82		Work starting soon on big gold prospect 50 miles NE of Hemlo MacMillan Energy Corp.

NEWSPAPER CLIPPINGS FILE			
PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
George Cross Newsletter	01/11/83		Windara Minerals Ltd.
George Cross Newsletter	01/20/83		Deal made on gold property of Northgate Group in N.W. Ontario Windara Minerals Ltd.
George Cross Newsletter	07/25/83		Drilling starts on Mishibishu Lake gold prospect, N.W. Ontario Windara Minerals Ltd.
George Cross Newsletter	09/06/83		Significant gold occurrence at Mishibishu Lake reported
Northern Miner	09/08/83		Surface results encourage Westfield and Windara
Northern Miner	09/08/83		Westfield gears for production
Northern Miner	09/15/83		Central gets results at Mishibishu Lake
George Cross Newsletter	09/16/83		New listing for V.S.E. bringing Ontario gold mine to production Westfield Mineral Ltd.
Northern Miner	10/13/83		Wasabi has completed reconnaissance work
Northern Miner	10/20/83		Mishibishu Lake area now alive with gold exploration projects

NEWSPAPER CLIPPINGS FILE			
PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Northern Miner	11/03/83		Central Crude active on several properties
Northern Miner	12/22/83		Westfield to proceed
Northern Miner	02/13/84		Major drill programs started by Westfield
North American Gold Mining News	02/15/84		Windata anxious to begin Mishibishu drill program
Northern Miner	03/01/84		Westfield Minerals Ltd.
George Cross Newsletter	03/27/84		Mishi Lake exploration to be continued MacMillan Energy Corp.
Northern Miner	03/29/84		MacMillan proceeds with Mishi Lake work
Northern Miner	03/29/84		MacMillan proceeds with Mishi Lake work
George Cross Newsletter	04/24/84		Diamond drilling starting at Mishibishu Lake, Ontario Windara Minerals Ltd.
Northern Miner	04/26/84		Westfield drilling
Northern Miner	04/30/84		Major drilling be Westfield planned for Mishibishu

NEWSPAPER CLIPPINGS FILE			
PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Northern Miner	06/14/84		Westfield drills stratabound zone
George Cross Newsletter	10/26/84		Mishibishu Lake drilling progress is reported Windara Minerals Ltd.
George Cross Newsletter	10/29/84		Mishibishu Lake program reviewed Windara Minerals Ltd.
George Cross Newsletter	10/30/84		Mishibishu Lake property deal reported MacMillan Energy Corp. Ltd.
George Cross Newsletter	10/31/84		Mishibishu Lake yields first good gold assays Windara Minerals Ltd.
Northern Miner	11/01/84		MacMillan options Mishibishu claims
Northern Miner	11/01/84	A3	MacMillan options Mishibishu claims
Northern Miner	11/01/84	A1&A6	Westfield drlling fuels exploration excitement
Northern Miner	11/08/84		MacMillan deal
Northern Miner	11/08/84		Mishibishu drill results encourage Westfield
George Cross Newsletter	11/09/84		Further drill assays reported from Mishibishu gold property Windara Minerals Ltd.

NEWSPAPER CLIPPINGS FILE

PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Northern Miner	11/22/84	1&12	Flanagan scores coup in Mishibihsu play
George Cross Newsletter	12/07/84		Further encouraging gold assays from Mishibishu Lake reported Westfield Mineral Ltd.
George Cross Newsletter	12/07/84		Further encouraging gold assays from Mishibishu Lake reported Windara Minerals Ltd.
Northern Miner	12/13/84		Westfield steps up Mishibishu drilling
George Cross Newsletter	12/14/84		Results to date reviewed Westfield Minerals Ltd.
Northern Miner	01/17/85		Mishibishu shares Hemlo gold fever Westfield Mineral Ltd.
George Cross Newsletter	01/21/85		Latest drill assays enhanced gold potential of Ontario project Westfield Minerals Ltd.
Northern Miner	01/24/85		Further results enhance Westfield-Windara bet
Northern Miner	01/31/85	1&2	Westfield drilling cuts gold, silver, zinc values
Northern Miner	02/07/85		MacMillan to drill Mishibishu gold area

NEWSPAPER CLIPPINGS FILE			
PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Northern Miner	02/21/85		Major program planned by Westfield this spring
George Cross Newsletter	02/22/85		Windara Minerals Ltd.
George Cross Newsletter	03/25/85		Drilling to resume shortly on the Mishibishu Lake, Ontario project Westfield Minerals Ltd.
Northern Miner	04/04/85		Westfield seeks tonnage at Mishibishu
Northern Miner	04/11/85		Wasabi planning Mishibishu work
George Cross Newsletter	04/22/85		Tax flow-through units being offered in Ontario Windara Mineral Ltd.
Northern Miner	05/09/85		Westfield exploration effort expands to Southwest U. S.
Northern Miner	06/13/85		Muscocho buys 25% piece of Mishibishu bet
Northern Miner	06/13/85		Muscocho buys 25% piece of Mishibishu bet Westfield Mineral Ltd.
Northern Miner	06/27/85		Muscocho resumes work at Mishibishu
Northern Miner	06/27/85		Muscocho resumes work at Mishibishu

NEWSPAPER CLIPPINGS FILE

PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Northern Miner	07/11/85		Westfield drilling at Mishibishu Lake
George Cross Newsletter	07/12/85		Drilling confirms mineral continuity Windara Minerals Ltd.
Northern Miner	07/18/85		Muscocho Explorations Ltd. Drilling shows continuity at Mishibishu
Northern Miner	08/11/85		Muscocho hits best ever
George Cross Newsletter	08/12/85		Killing on Mishibishu Lake project is being accelerated Windara Minerals Ltd.
George Cross Newsletter	08/23/85		Mishibishu assay results reported Windara Minerals Ltd.
George Cross Newsletter	09/04/85		Granges joins MacMillan in Mishibishu Lake program
Northern Miner	09/15/85	1&6	Mishibishu results might spark activity
Northern Miner	09/16/85		Granges/MacMillan deal on Mishibishu property
Northern Miner	09/16/85		Granges/MacMillan deal on Mishibishu property
Northern Miner	09/23/85	1&2	Flanagan upping efforts at Mishibishu property

NEWSPAPER CLIPPINGS FILE			
PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Northern Miner	09/23/85		Muscocho adds Magino interest to it's asset mix
Northern Miner	09/30/85		No shenanigans from Flanagan McAdam
Northern Miner	09/30/85		Westfield has profit
Northern Miner	10/07/85		Drill findings look decidedly interesting at Mishibishu gold find
Northern Miner	10/21/85		Important find shaping up at MIshibishu Lake
Northern Miner	10/21/85	1&19	Important find shaping up at Mishibishu Lake
Northern Miner	11/25/85		Mishibishu tops Flanagan's year
Northern Miner	12/16/85		Flanagan placement to Muscosho Explorations
Northern Miner	12/28/85		Lake Mishibishu to explore underground
George Cross Newsletter	01/08/86		Soil samples indicate possible extension of Muscocho gold strike MacMillan Energy Corp. Ltd.
Northern Miner	01/13/86		MacMillan sampling results encouraging

NEWSPAPER CLIPPINGS FILE			
PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
George Cross Newsletter	01/27/86		Drilling starts at Mishibishu Lake MacMillan Energy Corp. Ltd.
George Cross Newsletter	01/28/86		"Highly favourable" results reported from continuing drilling at Mishibishu Lake Windara Minerals Ltd.
North American Gold Mining Industry	01/31/86		Muscocho heads underground at Mishibishu Lake, maybe Magino too
George Cross Newletter	02/05/86		Granges Exploration Ltd. First core awaits assay second hole is drilling
Northern Miner	02/26/86		MacMillan starts on second hole at Mishibishu Lake
Northern Miner	03/24/86		Muscocho goes underground on MIshibishu Lake property
Northern Miner	03/24/86	1&2	Muscocho Explorations Ltd. Mishibishu deep drilling doubles tonnage potential
George Cross Newsletter	03/25/86	3	Granges Exploration Ltd.
George Cross Newsletter	04/10/86		Known strike length is now 2000 feet on gold property MacMillan Energy Corp. Ltd.
Northern Miner	04/14/86		Granges seeking $52 million with convertible Eurobond
George Cross Newsletter	04/16/86		Windara Minerals Ltd.

NEWSPAPER CLIPPINGS FILE			
PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Northern Miner	07/07/86		Granges MacMillan $550 000 program now under way
Northern Miner	08/04/86		Visible gold behind Windara's jump
Northern Miner	08/11/86		Granges and MacMillan extend Mishibishu zone
Northern Miner	08/11/86		Drilling cuts new zone on Mishibishu project
Northern Miner	08/11/86		MacMillan, Granges venture test for Muscocho extension
George Cross Newsletter	08/20/86		Mining width, ore grade gold drilled on Ontario project MacMillan Energy Corp. Ltd.
George Cross Newsletter	09/09/86		Mishibishu gold zone extended second diamond drill planned MacMillan Energy Corp. Ltd.
Northern Miner	09/15/86		Flanagan McAdam now underground at Mishibishu Lake
George Cross Newsletter	09/19/86		Third drill added to Mishibishu project MacMillan Energy Corp.
Northern Miner	10/13/86		MacMillan/Granges extend Mishibishu Lake gold zone
George Cross Newletter	10/21/86	1&2	Granges Exploration Ltd. Encouraging progress made at Mishibishu Lake, Ontario

NEWSPAPER CLIPPINGS FILE			
PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Northern Miner	11/17/86		MacMillan, Granges discover new zone at Mishibishu Lake
Northern Miner	01/05/87		MacMillan Granges find gold values
George Cross Newsletter	01/19/87		High gold values cut underground Windara Minerals Ltd.
Northern Miner	01/26/87		Three successful projects have Muscocho hustling
Sault Star	02/13/87		Gold exploration bright spot for Wawa
Northern Miner	02/23/87		Magnacon project lists Muscocho
George Cross Newletter	03/03/87		Some high grade gold intersections assayed MacMillan Energy Corp.
Northern Miner	04/13/87		Muscocho builds quietly
Northern Miner	04/13/87		$10 million for Muscocho
Northern Miner	04/27/87	20	Lots of upside for Muscocho
Northern Miner	04/27/87		No title (50% in Magino)

NEWSPAPER CLIPPINGS FILE			
PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Northern Miner	05/04/87		Muscocho gets good results
George Cross Newletter	05/22/87		MacMillan Energy Corp. Ltd.
Northern Miner	06/01/87		Muscocho Explorations Ltd. Initial raise proves promising at Mishibishu Lake project
Sault Star	06/23/87		Man killed in accident at mine north of Wawa
George Cross Newsletter	07/02/87		Rich gold values continue in raise at Mishibishu Lake Windara Minerals Ltd.
Northern Miner	08/03/87		Raises completed at Magnacon bet
George Cross Newsletter	09/04/87		Further assays from high grade gold zone MacMillan Energy Corp. Ltd.
Northern Miner	09/07/87		Central Crude among big movers
Northern Miner	09/14/87	5	Flanagan and partners exceed reserve numbers (Magnacon)
Northern Miner	09/21/87	3	Noranda dealing with San Paulo Mishibishu ground
Northern Miner	09/21/87	15	MacMillan, Granges busy at Mishibishu

NEWSPAPER CLIPPINGS FILE			
PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Northern Miner	09/28/87		Central Crude Ltd. Properties and projects
World Investment News	10/10/87		New developments boast Magnacon
Northern Miner	10/26/87	21	Central Crude encouraged by Eagle River results
George Cross Newletter	10/30/87		Underground operations planned at Ontario gold project MacMillan Energy Corp. Ltd.
Northern Miner	11/09/87		Underground operations planned at MacMillan-Granges prospect
Northern Miner	11/23/87	1&20	Magnacon yields strong results
Northern Miner	11/30/87		Some interesting points about the Central Crude-Hemlo Gold Mines Inc. project in the Mishibishu Lake area, Northern Ontario
George Cross Newsletter	12/04/87		Table of drill hold assay results overleaf MacMillan Energy Corp. Ltd.
George Cross Newsletter	12/10/87		Windara Minerals Ltd.
Northern Miner	12/14/87		Granges, MacMillan expanding ore zone at Mishibishu Lake
Northern Miner	12/14/87		San Paulo has optioned one of two Mishibishu Lake properties to Noranda

NEWSPAPER CLIPPINGS FILE			
PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Northern Miner	12/21/87		Muscocho bucks market trend with $18 million offering
Financial Post	12/21/87	48	(Drillhole Diary) Magnacon partners see a new mine Muscocho Explorations Ltd. (25%) Flanagan McAdam Resources Inc. (50%) Windara Minerals Ltd. (25%)
Northern Miner	12/21/87	13	Magnacon reveals surprises for Flanagan
George Cross Newsletter	12/22/87		Drilling at the Magnacon indicates new gold zone
George Cross Newsletter	12/22/87		MacMillan Energy Corp.
Globe and Mail	12/22/87		Muscocho
George Cross Newsletter	12/22/87		Significant gold is cut in Mishibishu drilling MacMillan Energy Corp. Ltd.
Northern Miner	01/04/88		Drilling extends zones at Granges MacMillan bet
George Cross Newsletter	01/08/88		Central Crude Ltd.
Northern Miner	01/11/88	3	Muscocho, partners encounter exciting underground results
Northern Miner	01/18/88	21	Gold search leads in Ontario

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Northern Miner	01/18/88		Noranda, Central release results from two areas of Eagle River bet
Northern Miner	01/18/88		Noranda, Central report results from Eagle River
Sault Star	01/22/88		Geologist sees stakes rising for Wawa in gold world
Northern Miner	01/25/88	32	The new Mishibishu Lake discovery Granges/MacMillan
George Cross Newsletter	02/12/88		High grade gold hole reported from Mishibishu Lake gold camp Central Crude Ltd.
George Cross Newsletter	02/16/88		Mishi drill results MacMillan Energy Corp.
Northern Miner	02/22/88	24	Property Map of the Mishibishu Lake Area, Northwestern Ontario
Northern Miner	02/29/88		Muscocho Explorations Ltd. Dubreilville Ontario
Northern Miner	03/07/88	A23	Northgate's cash could help Westfield
Northern Miner	03/07/88	A24	Another busy year for San Paulo with three drills now at work (Augusta Lake property optioned to Noranda)
George Cross Newsletter	03/08/88		Underground work increases tonnage and grade significantly Windara Minerals Ltd.

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George Cross Newsletter	03/11/88		Mishibishu gold interest to be sold for cash, shares and royalty Westfield Mineral Ltd.
Northern Miner	03/14/88		Enriched gold encountered at MacMillan/Granges bet
Northern Miner	03/14/88		Westfield Mineral Ltd.
George Cross Newsletter	03/16/88		Gold project will be placed in production Windara Minerals Ltd.
Sault Star	03/16/88		Muscocho Explorations Ltd. January production start set for mine
Sault Star	03/18/88		Some good news for Wawa January 1989 production start date for Magnacon Gold Mine
Northern Miner	03/21/88	1&6	Magnacon makes second mine for growing Muscocho group
George Cross Newsletter	03/23/88		Option agreement provides financing Windara Minerals Ltd.
Algoma News Review	03/23/88		Muscocho announces production
George Cross Newsletter	03/23/88		Windara Minerals Ltd.
Northern Miner	03/28/88		Muscocho, McNellen close to production on Magino property

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Northern Miner	03/28/88	1&6	Noranda, Hemlo Gold active at red-hot Mishibishu region
George Cross Newsletter	03/29/88		Wider richer gold values encountered Windara Minerals Ltd.
Sault Star	04/08/88		Wawa assaying firm tapping area prospects
Financial Post	04/18/88		Echo Bay makes cash infusion for Muscocho group
Northern Miner	04/18/88		Strong assays cut by Hemlo, Central
Globe and Mail	04/18/88	B17	Echo Bay Mines to buy stake in Muscocho
Northern Miner	04/25/88		Echo Bay to control Muscocho
George Cross Newsletter	04/25/88		Hemlo to provide $13,050,000 for Magnacon production and Mishibishu gold property exploration
George Cross Newsletter	04/25/88		Property Map of the Mishibishu Lake Area
Northern Miner	04/25/88	25	Dominion Explorers (Missing Lake property mentioned)
George Cross Newsletter	04/29/88		Drilling cut gold in Mishibishu district Central Crude Ltd.

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Northern Miner	05/02/88	1&2	Hemlo buys into Windara for Mishibishu area play
Northern Miner	05/09/88	24	Applegath Group of Companies - Mishibishu Lake Area (Property Map)
George Cross Newsletter	05/09/88		Central Crude Ltd.
George Cross Newsletter	05/12/88		Mishi Lake reserves increased MacMillan Energy Corp.
Northern Miner	05/16/88	16	Property Map of the Mishibishu Lake Area, Northwestern Ontario
George Cross Newsletter	05/18/88		Hemlo buys shares of Central Crude
Northern Miner	05/23/88	27	Muscocho revises Echo Bay deal
Northern Miner	05/23/88	9	Central Crude takes a big jump
Algoma News Review	05/25/88	1&12	Great Lakes Power schedule stepped up for Magnacon
George Cross Newsletter	05/26/88		Granges Exploration Ltd. Three mines in production during 1987 Two mines could reach production decision in 1988 Gold production forecast at 115,500 ounces for 1989
Northern Miner	05/30/88	24	Property map of the Mishibishu Lake Area, Northwestern Ontario

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Sault Star	06/01/88		Hemlo pays Noranda Inc. $30 million for western partnership
Northern Miner	06/06/88		Central Crude play pays off for Noranda
Northern Miner	06/06/88	28	Property Map of Mishibishu Lake Area, Northwestern Ontario
Northern Miner	06/06/88	13	Echo Bay completes Muscocho aquisition
George Cross Newsletter	06/06/88		Central Crude-Noranda Deep hole being drilled Hemlo exercises warrants
Northern Miner	06/06/88		Windara planning major exploration
George Cross Newsletter	06/09/88		Deep test confirms continuity and grade MacMillan Energy Corp. Ltd.
George Cross Newsletter	06/09/88		Central Crude Ltd. Drilling results reported
Northern Miner	06/13/88		Muscocho Explorations Ltd. Dubreuilville Ontario
Northern Miner	06/13/88		Mishibishu is hotter area than ever
Northern Miner	06/13/88		Muscocho aims to boast output

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PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Globe and Mail	06/15/88		Growth minded Echo Bay turning to joint ventures
George Cross Newsletter	06/15/88		Exceptional drillhole at Magnacon property
Northern Miner	06/20/88	1&2	Magnacon returns best hole / Big Magnacon intersection
Northern Miner	06/20/88		Echo Bay - Muscocho joint venture
George Cross Newsletter	06/27/88		Eagle River drill results reported
Sault Star	07/02/88		Study hints of "second wave" of mines
George Cross Newsletter	07/15/88		Further drill results reported (Eagle River)
George Cross Newsletter	07/15/88		Up to 38% of MacMillan optioned to Muscocho
Wall Street Journal	07/15/88		Muscocho Explorations Ltd.
George Cross Newsletter	07/15/88		Mishibishu Lake Area Map (property location map showing claim holdings in the Mishibishu Lake area)
Northern Miner	07/23/88	3	Spectacular results for Muscocho group's Magnacon

NEWSPAPER CLIPPINGS FILE			
PAPER	ISSUE DATE(S)	PAGE	ARTICLE HEADLINE OR COMPANY AND/OR SUBJECT
Northern Miner	07/25/88	3	Spectacular results for Muscocho group's Magnacon
Northern Miner	07/25/88		Hemlo Gold-Central Crude Eagle River property
George Cross Newsletter	07/28/88		New Magnacon drill results
Northern Miner	08/01/88	24	A 12 page summary report on the Mishibishu Lake area is being updated and will be released shortly
George Cross Newsletter	08/04/88		Granges Exploration Ltd. Impact of Magnacon effect seen in surface sampling
George Cross Newsletter	08/04/88		Granges-MacMillan Mishibishu joint venture
George Cross Newsletter	08/04/88		Canova Resources Ltd. Expeditor Resource Group Ltd. Mishibishu Area Properties Aquired
George Cross Newsletter	08/05/88		Eagle River assays reported
George Cross Newsletter	08/05/88		Central Crude Ltd.
Northern Miner	08/08/88	1&23	New Mishi find for Granges/MacMillan
George Cross Newsletter	08/09/88		3 property programs reviewed early 1989 production scheduled

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George Cross Newsletter	08/10/88		Windara group of companies Mishibishu Lake area
George Cross Newsletter	08/10/88		Acheron Resources Ltd. Mishibishu Gold Belt Entered
George Cross Newsletter	08/17/88		Granges Exploration Ltd. Gold production triples in the second quarter
George Cross Newsletter	09/02/88		Further assays reported (Eagle River)
Northern Miner	09/05/88	1&2	Mishibishu rush compares to Hemlo
Northern Miner	09/05/88	7	Magnacon shows gold-bearing veins
George Cross Newsletter	09/06/88		Canova Resources Ltd. Expeditor Resource Group Ltd. Mishibishu Claims Joint Ventured
George Cross Newsletter	09/06/88		Granges ExplorationLtd. Mishi project and Tartan law suit reviewed
Northern Miner	09/12/88	1&17	Central Crude Mishibishu find ignites interest
Northern Miner	09/12/88		Central Crude fathers forming new project for Mishibishu area
Northern Miner	09/12/88		Ebony Gold Corporation, claims aquired in Mishibishu Lake area

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George Cross Newsletter	09/15/88		Mishi main zone open pit potential now under test Granges/MacMillan
George Cross Newsletter	09/21/88		Central Crude properties optioned
Algoma News Review	09/23/88	13	Public meeting - Muscocho Explorations Ltd., Magnacon Gold Project
George Cross Newsletter	09/29/88		Granges Exploration Ltd. Hemlo/Noranda violated confidentiality agreement
Globe and Mail	09/29/88	B 1&2	Granges says Hemlo violated share purchase agreement
Northern Miner	10/03/88	1	Granges seeks to overturn share purchase by Hemlo
Northern Miner	10/03/88		Eagle River
Northern Miner	10/03/88		Granges/MacMillan Mishibishu Lake
Northern Miner	10/03/88	B7	Mishibishu area mines are all active
George Cross Newsletter	10/06/88		Magnacon, Granges/MacMillan agree to test mill Mishi project open pit ore
George Cross Newsletter	10/06/88		MacMillan Energy Corp. Granges Exploration Ltd.

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George Cross Newsletter	10/07/88		Windara to be listed on T. S. E.
George Cross Newsletter	10/14/88		Acheron Resources Ltd. Universal Trident Industries Ltd. Acheron expands Mishibishu Lake gold belt holdings
George Cross Newsletter	10/14/88		Canova Resources Ltd. Expeditor Resource Group Ltd. Mishibishu Claims Update
Northern Miner	10/17/88	1&2	Joint milling plan possible for Granges, Muscocho
George Cross Newsletter	10/20/88		Mishibishu area alive with gold exploration projects Tundra Gold Mines
George Cross Newsletter	10/21/88		Central Crude Ltd. Visible gold discovered
Sault Star	10/21/88		2 inquests scheduled for Wawa
Northern Miner	10/24/88	2	Muscocho, McNellen opens Magino gold mine (Magnacon scheduled to open during spring 1989)
Sault Star	10/25/88	B7	Gold Mines bring economic glow
Northern Miner	10/31/88	3	Noront gets nod from Central as exploration arm
Algoma News Review	11/02/88	2	Resident Geologist informed

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Algoma News Review	11/02/88		Scooptram Brakes Contributed to Mine Death
George Cross Newsletter	11/04/88		Central Crude Ltd. Drilling to start on Pukaskwa River property
Northern Miner	11/14/88	3	Noront spreading it's wings
George Cross Newsletter	11/21/88		Mishi update MacMillan Energy Corp. Ltd.
George Cross Newsletter	11/27/88		Granges Exploration Ltd. Drillholes define no. 2 lens
George Cross Newsletter	12/01/88		Mishi project reviewed MacMillan Energy Corp.
George Cross Newsletter	12/08/88		Open pit and underground 2000 tpd operation contemplated Granges/MacMillan
George Cross Newsletter	12/15/88		Eagle River assays reported
Northern Miner	01/02/89	20	Looking Back at 1988
George Cross Newsletter	02/21/89		Hemlo Gold Mines Inc. Windara Minerals Ltd. More Windara Shares Aquired
Sault Star	03/21/89	B5	Town gets funds for mines impact study (White River)

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George Cross Newsletter	03/31/89		Profco Resources Ltd. negotiating to aquire properties in the Mishibishu area
Sault Star	/ /88		Coroners jury recommends strict mining safety measures
Northern Ontario Business	05/ /88		Gold has changed outlook in the community of Wawa Wawa mining boom built quietly, locals unaware of impending impact
Northern Miner	? / /		Wasabi is aggressive in Mishibishu area
Northern Miner	11/ /86		Granges Exploration Ltd. Pukaskwa project Mishibishu Lake gold belt
George Cross Newsletter	/ /87		Progress at Mishibishu Lake, Ontario reported Windara Minerals Ltd.
George Cross Newsletter	07/ /85		Drilling confirms mineral continuity Westfield Mineral Ltd.
George Cross Newsletter	05/ /85		Mishibishu property ownership change reported Westfield Mineral Ltd.
George Cross Newsletter	/ /88		Face samples over 94.5 foot raise averaged 2.5 oz. gold/ton uncut, 0.74 cut to one ounce Windara Minerals Ltd.
Northern Ontario Business	05/ /89	46	Mining Report Wawa-one of minings hottest areas
Northern Miner	11/ /86		MacMillan gold zone expands at Mishibishu Lake

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George Cross Newsletter	/ /87		"Exceptionally high" gold values cut at Mishibishu Lake, Ontario Windara Minerals Ltd.
Northern Miner	07/ /87		Muscocho reports high grade gold
George Cross Newsletter	11/ /86		Central Crude Interest optioned in Ontario claims
News Release	? / /		Central Crude Ltd. Mishibishu gold camp
George Cross Newletter	/ /87		Progress on Ontario gold project at Mishibishu Lake is reviewed MacMillan Energy Corp. Ltd.

OGS/ODM GENERAL INDEX SEARCH

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Amichi Prospect
Augusta Lake
Aylen Mines Occurrence
Bishu Mines
Cameron Lake
Erie Canadian
Floating Heart Lake
Floating Heart River
Hollinger Consolidated Gold Mines Ltd.
Katzenbach Cu Showing
Katzenbach Lake
Macassa
Maple-Cameron Lake Occurrence
Mishibishu Lake
Mishi Lake
Missing Lake
Pukaskwa Area
Sanderson Showing
Sand River Gold Mining Co.

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5	No Listings Found			
6	No Listings Found			
7	No Listings Found			
8	Amichi Prospect			
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8	Hollinger Consolidated Gold Mines Ltd. Mishibishu Lake Area, Algoma Dist.	MP 22		33
	Maple-Cameron Lakes Occurrences - see Cameron-Maple Lakes Occurrences			
	Mishibishu Lake Area, Thunder Bay Dist. Gold	MP 22 MRC 13		33 288-289
	Pukaskwa Operation, Thunder Bay & Algoma Dist. Summary of Field Work, 1968, by G. Bennett, P.C. Thurston, and J. F. Giguere	MP 22		31-34
9	Amichi Gold Mines Ltd. Pukaskwa River Area, Thunder Bay Dist.	GR 153 GR 158		40,45 15
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Asarco Explorations of Canada Ltd.
David Lakes

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	Mishibishu Lake Stock Analyses, modal Pukaskwa Area, Algoma & Thunder Bay Dist. Petrography Pukaskwa Area, Algoma & Thunder Bay Dist.	GR 153 GR 158		30 11
9	Missing Lake Pukaskwa River Area, Thunder Bay Dist.	GR 153		16,24
	Pukaskwa Area, Algoma & Thunder Bay Dist. Geochem. study of the area Report on, 1976 by W.J. Wolfe	GR 158		
	Pukaskwa River Area, Algoma & Thunder Bay Dist. Report (quaternary) & map 5096 on, 1979 by John F. Gartner & D.F. McQuay	NOEGTS 72		
	Pukaskwa-University Rivers Area, Algoma & Thunder Bay Dist. Copper	GR 153		39-53

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	1977 by G. Bennett & P.C. Thurston	GR 153		
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9	Sand River Gold Mining Co. Ltd.			
	Pukaskwa River Area, Thunder Bay Dist.	GR 153		52

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scale and/or Reprt/Pages
Algoma Central Railway	1964	Mishibishu Lake - Pokei Lake	ACR Map 42C 3 & 6	1"=1mile
Barlow, R. B.	1988	Total Magnetic Field Colour Image Developed from Digital Archives of the OGS, Wawa Area, Districts of Algoma, Thunder Bay and Sudbury	OGS Geophysical/ Geochemical Series Map 81143	1: 100 000
Barlow, R. B.	1988	Calculated Second Vertical Derivative Colour Image Developed from Digital Archives of the OGS, Wawa Area, Districts of Algoma, Thunder Bay and Sudbury	OGS Geophysical/ Geochemical Series Map 81144	1: 100 000
Barlow, R. B.	1988	Directionally Shadowed Total Magnetic Field Colour Image Developed from Digital Archives of the OGS, Wawa Area, Districts of Algoma, Thunder Bay and Sudbury	OGS Geophysical/ Geochemical Series Map 81145	1: 100 000
Bell, J. M.	1905	Iron Ranges of Michipicoten (West)	OBM AR Vol. 14, Pt. 1, with Map 14a	p. 278-355 1: 126 720
Bennett, G. Thurston, P. C.	1977	Geology of the Pukaskwa - University Rivers Area, Districts of Algoma and Thunder Bay	ODM GR 153 and 2 Maps	60 pages 1"=1mile

SELECTED REFERENCES			Reference	Map Scale and/or Reprt/Pages
Author	Date	Title		
Bennett, G. Thurston, P. C.	1972	Operation Pukaskwa, Districts of Algoma and Thunder Bay, Ontario	OGS OFR 5073	93 pages
Bennett, G. Thurston, P. C. Giguere, J. F.	1972	University River Sheet	ODM Map 2333	1"=1mile
Bennett, G. Thurston, P. C. Giguere, J. F.	1969	Operation Pukaskwa	ODM Prelim. Map P. 541	1"=2miles
Bennett, G. Thurston, P. C. Giguere, J. F.	1969	Operation Pukaskwa, Pukaskwa River Sheet, Districts of Thunder Bay and Algoma	ODM Prelim. Map P. 507	1"=1mile
Bennett, G. Thurston, P. C. Giguere, J. F.	1968	Summary of Field Work by the OGS, No. 12, Operation Pukaskwa, Districts of Thunder Bay and Algoma	OGS MP 22	p. 31-34
Bennett, G. et al	1986	Sault Ste. Marie Resident Geologist's Area, Northeastern Region	OGS MP 134	p. 234-236
Bennett, G. et al	1985	Sault Ste. Marie Resident Geologist Area, Northeastern Region	OGS MP 128	p. 240-242

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Author	Date	Title		
Blomberg, Paul	1988	A Petrological Study of the Central Pluton of the Mishibishu Belt, District of Thunder Bay, Ontario	Unpublished B. Sc. Thesis, University of Toronto, Ont.	117 pages
Bowen, R. P.	1986	Mishibishu Lake Area, Districts of Thunder Bay and Algoma	OGS MP 132	p. 107-110
Bowen, R. P. Logothetis, J.	1985	Mishibishu Lake Area, Districts of Thunder Bay and Algoma	OGS MP 126	p. 78-82
Bowen, R. P. Logothetis, J. Heather, K. B.	1986	Precambrian Geology of the Mishibishu Lake Area, Northeastern Section, Districts of Thunder Bay and Algoma	OGS Prelim. Map P. 2970	1"=1/4 mile
Coleman, A. P.	1899	Map of the Western Part of the Michipicoten Mining Division, Algoma District	OBM Map 8b	1: 253 440
Coleman, A. P.	1899	Copper Regions of the Upper Lakes, Ontario	OBM AR Vol. 8, Pt. 2	p. 121-174
Evans, E. L.	1940	Geology of the Mishibishu Lake Area	OBM AR Vol. 49, Pt. 9, with Map 49j	p. 1-12 1"=1mile

SELECTED REFERENCES			Reference	Map Scale and/or Reprt/Pages
Author	Date	Title		
Gartner, J.F. McQuay, D.F.	1979	Pukaskwa River Including Michipicoten Island: Northern Ontario Geology Terrain Study	NOEGTS Study 72 with Map 5096	14 pages 1:100 000
Heather, K.B.	1986	Mineralization of the Mishibishu Lake Greenstone Belt	OGS MP 132	p. 283-291
Heather, K.B.	1985	Gold Showings of the Mishibishu Lake Area, Thunder Bay District	OGS MP 126	p. 83-89
Ho, J.	1987	Geology and Mineralization of the Discovery Showing, Mishibishu Lake Greenstone Belt, Thunder Bay District, Ontario	Unpublished B.Sc. Thesis, University of Toronto, Ont.	
Millard, J.E.	1984	Structural Trends Within a Mineralized Shear Zone, Mishibishu Lake Region, Sault Ste. Marie Mining Division, Ontario	Unpublished B.Sc. Thesis, University of Toronto, Ont.	65 pages
Milne, V.G. et al	1972	Manitouwadge - Wawa Sheet	ODM Map 2220	1"=4miles
ODM-GSC	1963	Aeromagnetic Map: Mishibishu Lake	ODM-GSC Aeromagnetic Series Map 2176G	1:250 000

SELECTED REFERENCES				
Author	Date	Title	Reference	Map Scale and/or Reprt/Pages
OGS-GSC	1979	Regional Lake Sediment and Water Geochemical Reconnaissance	OGS OFR 5267 and 16 Maps	83 pages 1: 250 000
OGS	1987	Airborne Electromagnetic and Total Intensity Magnetic Survey, Wawa Area, Districts of Algoma, Sudbury and Thunder Bay	OGS Geophysical/ Geochemical Series Map 81023	2 maps 1: 20 000
Pomainville, D. M.	1987	Petrography, Geochemistry and Provenance of the Mishibishu Lake Metasedimentary Rocks in the District of Thunder Bay, Ontario	Unpublished B. Sc. Thesis, University of Windsor, Ont.	67 pages
Reid, R. G. Reilly, B. A.	1987	Mishibishu Lake Area, Districts of Algoma and Thunder Bay	OGS MP 137	p. 138-145
Springer, Janet	1977	Ontario Mineral Potential: White River Sheet	OGS Prelim. Map P. 1519	1: 250 000
Wolfe, W. J.	1976	Regional Geochemical Reconnaissance of Archean Metavolcanic - Metasedimentary Belts in the Pukaskwa Region	ODM GR 158	54 pages
Wolfe, W. J.	1973	Regional Geochemical Reconnaissance of Archean Metavolcanic - Metasedimentary Belts in the Pukaskwa Region, Algoma and Thunder Bay Districts	OGS OFR 5091	62 pages

SELECTED REFERENCES			Reference	Map Scale and/or Reprt/Pages
Author	Date	Title		
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Cold Extractable Heavy Metals in Stream and Spring Sediments	ODM Prelim. Map P. 508	1" = 1mile
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Geochemistry of Copper in Stream and Spring Sediments	ODM Prelim. Map P. 509	1" = 1mile
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Geochemistry of Zinc in Stream and Spring Sediments	ODM Prelim. Map P. 510	1" = 1mile
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Geochemistry of Manganese in Stream and Spring Sediments	ODM Prelim. Map P. 511	1" = 1mile
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Geochemistry of Nickel in Stream and Spring Sediments	ODM Prelim. Map P. 512	1" = 1mile
Wolfe, W. J. Wright, G. R.	1969	Operation Pukaskwa, Districts of Thunder Bay and Algoma: Geochemistry of Cobalt in Stream and Spring Sediments	ODM Prelim. Map P. 513	1" = 1mile

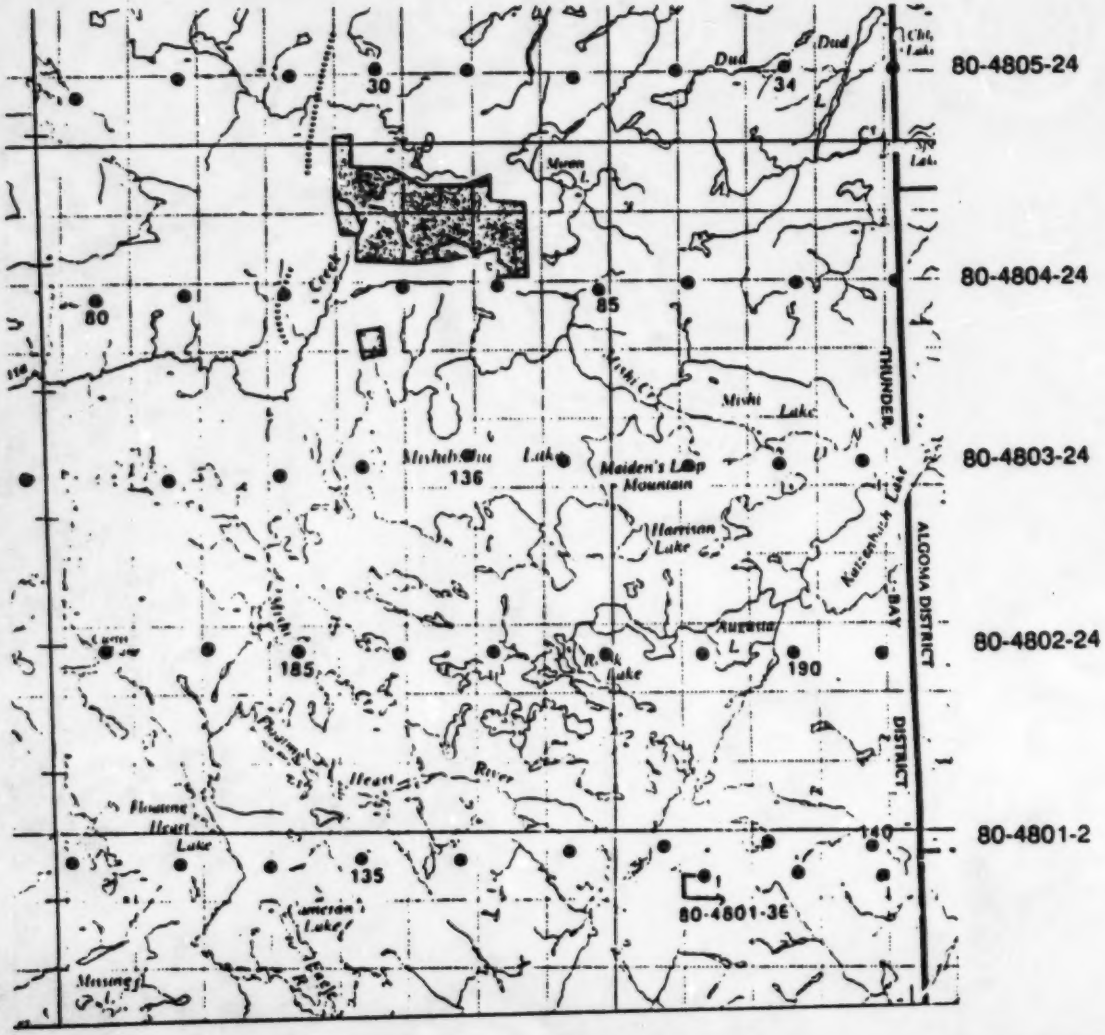
Note #	NOTES
0	Mineral occurrence number 23 (quartz vein) from ACR Map 42C 3 & 6 has not been plotted due to lack of verification.
0	Brief computer based index level data files pertaining to mineral occurrences in this area can be found in: Rose, D.G. 1985: Mineral Inventory of the Sudbury - Timmins - Sault Ste. Marie Region, Ontario. Geological Survey of Canda Open File 1087.
1	This file (42C03SW 0012-A1) also contains a dip needle survey completed in 1957.
2	This file (42C03SW 0025) also contains a Max-Min survey completed in 1983.
3	This file (42C03SW 0028) also contains a sampling program completed in 1983.
4	This file (42C/03SW 0029) also contains a sampling program completed in 1984.
5	This file (42C/03SW 0031) also contains a sampling program completed in 1984.
6	This file (St. Germain 0010) also contains a sampling program and a compilation map completed in 1972.
7	This file (St. Germain 0012) also contains a sampling program completed in 1938.
8	This file (41N/14NW 0014) also contains a sampling program completed in 1983.
9	This file (42C/03SW 0032-A1) contains a map only. No assay results are given.
10	This file (42C/03SW 0032-B1) shows (on the VLF-EM map) the location of 7 drillholes for which no other information is available. (Plotted as drillhole number 260 on GDIF exploration data map B-1)

Note #	NOTES
11	The following is a list of Wawa file numbers with their corresponding Toronto (Assessment Files Research Office) numbers: WP-Mishibishu Lake-1 - 2.9639 -This file eliminated (contains invoices only) WP-Mishibishu Lake-2 - 2.9733 WP-Mishibishu Lake-3 - DD18 WP-Mishibishu Lake-4 - DD19 WP-Mishibishu Lake-5 - DD20 WP-Mishibishu Lake-6 - DD21 -This file eliminated (exact duplicate of WP-Mishibishu Lake-16) WP-Mishibishu Lake-7 - DD22 WP-Mishibishu Lake-8 - 63.4586 WP-Mishibishu Lake-9 - 2.10728 WP-Mishibishu Lake-10 - 2.10662 WP-Mishibishu Lake-11 - 2.10649 WP-Mishibishu Lake-12 - 2.10699 WP-Mishibishu Lake-13 - 2.10698 WP-Mishibishu Lake-14 - 2.11040 WP-Mishibishu Lake-15 - 2.11081 WP-Mishibishu Lake-16 - OM86-7-P-155 WP-Mishibishu Lake-17 - OM85-7-P-172 WP-Mishibishu Lake-18 - 2.11293 WP-Mishibishu Lake-19 - 2.11781 WP-Mishibishu Lake-20 - 2.11754 WP-Mishibishu Lake-21 - 2.11963 -This file eliminated (exact duplicate of WP-Mishibishu Lake-19) WP-Mishibishu Lake-22 - 2.12437 WP-Pilot Harbour NE-5 - 2.11932 WP-Point Isacor-2 - 2.10277
12	This file (WP-Mishibishu Lake-11) also contains an airborne resistivity survey completed in 1987.
13	This file (42C/03SW 0024-A1) contains assay results of a soil geochemistry survey outlined in file 42C/03SW 0023.
14	This file (WP-Mishibishu Lake-18) gives a brief description of the airborne geophysical survey contained in file WP-Mishibishu-11.

Note #	NOTES
15	The location of the Aylen Mines Occurrence is plotted incorrectly on ODM Map P. 507 and ODM Map 2333. The original GDIF compiler states that the correct location is shown as mineral occurrence G on exploration data map B-1 which accompanies this report. Assessment file WP-Mishibishu-18 shows a different location than the original compiler, however due to inconclusive evidence the location has been left as originally plotted in 1986.
16	Diamond drll hole number 17 (file 42C/03SW 0011) included in the original compilation has been omitted from the update. It's location is the same as diamond drill hole number 185.
17	Drill holes which are plotted on exploration data map B-1 as number 44 are X-ray holes.
18	The location of drill hole numbers 1-5 inclusive (see exploration data map B-1) are correct according to claim post location. The claim posts are however shown in different locations on several claim maps.
19	Drill hole number 47 (see exploration data map B-1) represents 36 holes which were drilled in the late 1940's by Bishu Mines Ltd.. There is little data except assay values available. This information is on Map 42C/03SW 0014 # 3 found in assessment file 42C/03SW 0014.
20	The Macassa Occurrence shown as No. 13 on ODM Map P. 507 and No. 24 on ACR Map 42C 3 & 6 should be plotted further north. It is shown in this report as Mineral Occurrence F and is known as the Bishu Mines or Macassa-Bishu Occurrence.
21	Drill hole numbers 261 & 262 (see drill hole summary p. 5-54 & 5-55) represent underground drilling. These drill holes were not plotted on the Exploration Data Map B-1 because of overcrowding. Drill hole number 261 should be plotted around the same drill hole as number 187 (see exploration data map B-1). Drill hole number 262 should be plotted around the same drill hole as number 208 (see exploration data map B-1).

ADDENDA

Map showing air photos available for viewing at Wawa Resident Geologist's Office, see p.9-1



CONVERSION FACTORS

Conversion from SI to Imperial			Conversion from Imperial to SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	25.4	mm
1 cm	0.393 70	inches	1 inch	2.54	cm
1 m	3.280 84	feet	1 foot	0.304 8	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	6.451 6	cm^2
1 m^2	10.763 9	square feet	1 square foot	0.092 903 04	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 02	cubic inches	1 cubic inch	16.387 064	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.546 090	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy) per ton (short)	20.0	pennyweights per ton (short)
1 pennyweight per ton (short)	0.05	ounces (troy) per ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm)

Note: Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries, published by the Mining Association of Canada in cooperation with the Coal Association of Canada.

For further information please contact:

Wawa Resident Geologist's Office
Ministry of Northern Development and Mines
Helen Mine Road
P.O. Box 530
Wawa, Ontario
P0S 1K0
705-856-4883

MISHIBISHU LAKE

MAP LEGENDS

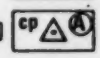
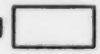
A. FILES INDEX MAP

FILE AREAS **See pages 4-1,2 .... of text**

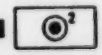
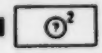
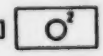
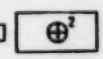
- ■ Reference number is always inside work area outlined. See listing in text pages.
- ☐ Small area of exploration data
- ■ File covers whole township or area
- ☐

B. EXPLORATION DATA MAP

MINERAL OCCURRENCES: See pages 3-1,2... of text

- ■ Mineral occurrence at surface, with reference letter
- ■ Mineral occurrence with shaft, depth given with reference letter
- ☐ Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ Mineralized float with reference letter
- ☐  Mineral occurrence encountered in drilling, with reference letter
- ☐ 

DRILLHOLES: See pages 5-1,2... of text

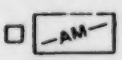
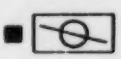
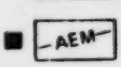
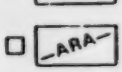
- ■ Location of single drillhole, with reference number
- ■  Location of group of closely spaced drillholes, with reference number
- ■  Drillhole, exact location uncertain, with reference number
- ☐ Property with underground drillholes in this general area, with reference number
- ☐  Property with drillholes which have not been plotted on map, with reference number
- ☐  Reverse circulation drillhole; churn drilling, with reference number
- ☐

GEOCHEMICAL: See pages 7-1,2...of text

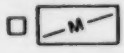
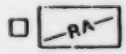
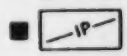
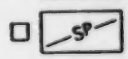
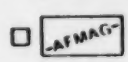
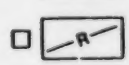
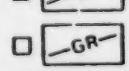
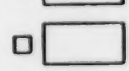
- ■ Geochemical sample site, with reference number
- ■ Area of geochemical sampling, with reference number
- ☐

GEOPHYSICAL ANOMALIES

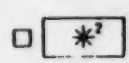
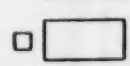
Airborne Surveys: See pages 6-1,2... of text

- ☐  Airborne magnetic anomaly
- ■ Airborne electromagnetic anomaly Length of anomaly along flight line
- ■  Airborne electromagnetic anomaly Location of anomaly along flight line
- ■ Airborne electromagnetic anomaly Conductor axis: definite, probable, possible
- ■  Airborne electromagnetic anomaly Conductor axis Location of flight lines uncertain
- ☐  Airborne radiometric anomaly

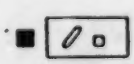
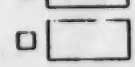
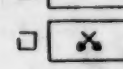
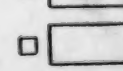
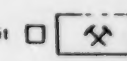
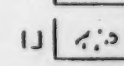
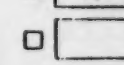
Ground Surveys

- ☐  Ground magnetic anomaly
- ■ Ground electromagnetic anomaly (VL - Vertical loop, HL Horizontal loop VLF Very low freq.; Turam; JEM Crone Em 16)
- ☐  Ground radiometric anomaly
- ■  Induced polarization anomaly
- ☐  Self potential anomaly
- ☐  Audio-frequency magnetic anomaly (total intensity)
- ☐  Resistivity anomaly
- ☐  Gravity anomaly
- ☐ 

GEOCHRONOLOGICAL DATA: See page 8 of text

- ☐  Age dating material sampling site, with reference number
- ☐ 

MISCELLANEOUS DATA

- ■  Trenching, pit
- ☐  Adit
- ☐  Sand and or gravel pit
- ☐ 
- ☐  Rock quarry
- ☐  Open pit
- ☐ 

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